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UNITED STATES AIR FORCE

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BOMB-NAVIGATION SYSTEMS

AFSC 321X0

AFPT 90-321-814

MAY 1988

OCCUPATIONAL ANALYSIS PROGRAM **USAF OCCUPATIONAL MEASUREMENT CENTER** AIR TRAINING COMMAND RANDOLPH AFB, TEXAS 78150-5000

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PREFACE

This report presents the results of an Air Force occupational survey of the Bomb-Navigation Systems (AFSC 321X0) career ladder. Authority for conducting specialty surveys is contained in AFR 35-2. Computer products used in this report are available for use by operations and training officials.

Mr Donald Cochran developed the survey instrument, Mr Wayne Fruge provided computer programming support, and Ms Raquel A. Soliz provided administrative support. Ms Faye Shenk analyzed the data and wrote the final report. This report has been reviewed and approved for release by Lieutenant Colonel Thomas E. Ulrich, Chief, Airman Analysis Branch, Occupational Analysis Division, USAF Occupational Measurement Center.

Copies of this report are distributed to Air Staff sections, major commands, and other interested training and management personnel. Additional copies may be requested from the Occupational Measurement Center, Attention: Chief, Occupational Analysis Division (OMY), Randolph AFB, Texas, 78150-5000.

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SUMMARY OF RESULTS

- 1. Survey Coverage: The Bomb-Navigation Systems AFSC was surveyed to provide a current data base for the career ladder due to major technology changes in the past 5 years. The inventory was completed by 466 military personnel (54 percent of the assigned AFSC 321X0 members).
- 2. <u>Career Ladder Structure</u>: Six jobs were identified within the AFSC 321X0 career ladder. These jobs are Flightline Personnel, Quality Assurance Personnel, Supervisory Personnel, Supply Personnel, Shop Personnel, and Flightline Production Personnel. Flightline Personnel and Shop Personnel represent the core jobs of the career ladder. The remaining jobs represent very small, specialized groups which comprise only a small segment of the population.
- 3. <u>Career Ladder Progression</u>: Three- and 5-skill level personnel are accomplishing the basic technical skills. The 7-skill level personnel assume a supervisory role although their job is still primarily technical.
- 4. <u>Career Ladder Documents</u>: The AFR 39-1 Specialty Descriptions adequately reflect the responsibilities of the Bomb-Navigation Systems positions.
- 5. Training Analysis: Based on percent members performing within either flightline or shop jobs, the majority of the STS and POI elements were supported. Sections covering the new Strategic Radar System and Strategic Mission Data Preparation System (SMDPS) elements were not supported at this time.

6. <u>Implications</u>: Clear distinctions were found between flightline and shop maintenance positions. Training is currently geared toward the flightline job which represents the largest portion of the career ladder. Job satisfaction has improved for first-term personnel; however, 5- and 7-skill level flightline personnel show low job interest and reenlistment potential.

OCCUPATIONAL SURVEY REPORT BOMB-NAVIGATION SYSTEMS CAREER LADDER (AFSC 321X0)

INTRODUCTION

This is a report of an occupational survey of the Bomb-Navigation Systems career ladder completed by the USAF Occupational Measurement Center (USAFOMC) in April 1988. The last Occupational Survey Report was published in 1977. The career ladder was previously surveyed in 1983 (requested by HQ ATC/TTQ). However, because the field was undergoing major technology changes and task data reflected usage of equipment which was being replaced, a formal OSR was not published.

During the last few years, the Bomb-Navigation Systems career ladder has undergone a major technology change with the conversion to the Offensive Avionics System (OAS) in the B-52 fleet. In addition, a new maintenance concept, Readiness Oriented Logistics System (ROLS) is also being implemented within SAC. Under ROLS, all Bomb-Navigation Shops will be divided into two separate groups. One group will be assigned to the Organizational Maintenance Squadron (OMS) and their responsibilities will include all organizational (flightline) maintenance. The second group will be assigned to the Avionics Maintenance Squadron (AMS) and will be responsible for all intermediate (field shop) maintenance.

Other modifications are in progress. The Strategic Radar (SR) modification replaces the ASQ-38 hardware that was retained with the OAS modification. The SR modification began in June 1986 and is programmed to take 4½ years to complete. Resident training personnel need to identify what tasks are being done in the field on the new Strategic Radar System. This training is being conducted through FTD courses until the new Strategic Radar course comes on line in May 1988. Additionally, personnel assigned to the AMS will perform organizational level maintenance to the LRU level on the Strategic Mission Data Preparation System (SMDPS).

The Plans and Branch Programs of the Occupational Analysis Division (USAFOMC/OMYX) initiated the current survey request to provide an update of the career ladder due to major technology changes in the past 5 years. Functional Managers and Tech School Training Managers who establish training standards and tech school course curriculum need to know what tasks are now being performed in the field.

Background

AFSC 321XO, Bomber-Navigation Mechanic, was created in 1955/56 with shred designations K and L to denote the specific aircraft and type of systems maintained. In 1984, the shreds were deleted and the ladder retitled Bomb-Navigation Systems.

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Effective October 1988, AFSC 321XO will convert to AFSC 456XO and pick up tasks from the Aerospace Photographic System (AFSC 404X1) career ladder involving photographic equipment on the B-52. The present responsibilities of the Bomb-Navigation Systems job will not change.

According to the present AFR 39-1 description, Bomb-Navigation Systems personnel isolate unit malfunctions and perform flightline and field maintenance on analog and digital bomb-navigation systems and associated equipment.

Primary entry into the career ladder is through a 24-week, 2-day resident training course (G3ABR32130) at Lowry AFB, Colorado. The Bomb-Navigation course covers the first block of Electronic Principles (68 days); use of test equipment; technical order procedures; trace data flow to include theory of operation, troubleshooting, isolation and repair of malfunctions; analog and digital computer theory and techniques; mapping, tracking, and terrain avoidance radar theory of operation and maintenance; electro-optical viewing system theory of operation and maintenance; and inspection and alignment of ASQ-176 bomb-navigation systems and ASQ-151 electro-optical viewing systems.

SURVEY METHODOLOGY

Data for this survey were collected using job inventory AFPT 90-321-814 dated May 1987. To develop the inventory, pertinent career ladder documents, the previous OSR, and the previous inventory were reviewed. A tentative task list was then validated through personal interviews with subject-matter experts in operational units at the following bases:

Wurtsmith AFB MI
KI Sawyer AFB MI
Minot AFB ND
Griffiss AFB NY
Loring AFB ME
Fairchild AFB WA
Mather AFB CA
Castle AFB CA
Carswell AFB TX
Blytheville AFB AR
Barksdale AFB LA

Field interviews at operational bases were determined based on the recommendation of the HQ SAC functional manager. The bases were chosen with respect to their assigned aircraft and organizational structure. Bases implementing the new maintenance concept, ROLS, were included, and bases using the new SR system were visited. A total of 66 subject-matter experts, representing 11 operational bases, plus Tech School Instructors, were interviewed during the development phase.

The resulting inventory listed 785 tasks grouped into 18 duty headings and a number of background questions asking for information about the duty title, organizational level of assignment, duty AFSC, time in service, time in career ladder, job satisfaction, and equipment used.

Survey Administration

From June 1987 through September 1987, Consolidated Base Personnel Offices at operational bases worldwide administered the surveys to 629 members of this career ladder. Participants were selected from a computer-generated mailing list provided by the Air Force Human Resources Laboratory.

All individuals who filled out an inventory completed an identification and biographical information section first. Next, they went through the booklet and checked each task performed in their current job. Finally, they went back and rated each task they had checked on a 9-point scale reflecting relative time spent on each task compared to all other tasks. Ratings ranged from 1, which indicated a very small amount of time spent, to 9, which indicated a very large amount of time spent. The relative percent time spent on tasks for each inventory was computed by first totaling all rating values on the inventory. Then the rating for each task was divided by this total and the result multiplied by 100. The percent time spent ratings from all the inventories was combined and used with percent members performing values to describe the various groups in the career ladder.

Survey Sample

Because the career ladder was fairly small, all eligible AFSC 321X0 personnel were asked to complete the survey. Personnel who had not been working in their present job for at least 6 weeks, or who were in PCS status were not considered eligible. For this study, 629 DAFSC 321X0 personnel were asked to complete the inventory. Four hundred sixty-six respondents were included in the final sample. This represents 54 percent of those assigned. Ninety percent of the survey sample are assigned to SAC and 10 percent to ATC.

Task Factor Administration

Job descriptions alone do not provide sufficient data for making decisions about career ladder documents or training programs. Additional task factor information is needed for a complete analysis of the career ladder. To obtain the needed task factor data, selected senior AFSC 321XO personnel completed either a Training Emphasis (TE) or Task Difficulty (TD) booklet. The TE and TD data were used in several analyses discussed later in this report.

Training Emphasis (TE). Training emphasis is the amount of structured training that first-term DAFSC 321XO personnel need to successfully perform tasks. Structured training is defined as training provided by resident technical schools, field training detachments (FTDs), mobile training teams (MTTs), from OJT, or any other organized training method. Thirty-eight Bomb-Navigation

Systems personnel completed TE booklets. They rated all tasks in the inventory on a 10-point scale ranging from no training required (0) to much structured training required (9). Interrater reliability (as assessed through components of variance of standard group means) was .90, which indicates good agreement among raters.

When TE ratings are used with other information, such as percent members performing and task difficulty, they can provide insight into training requirements and help validate the need for organized training for the career ladder.

Task Difficulty (TD). Task Difficulty is defined as the amount of time the average airman needs to learn to do a task satisfactorily. Thirty-nine experienced AFSC 321XO personnel rated the difficulty of the tasks in the inventory on a 9-point scale ranging from 1 (easy to learn) to 9 (very difficult to learn). Ratings were adjusted so tasks of average difficulty would have a value of 5.0. Interrater reliability was .93, which indicates high agreement among raters.

SPECIALTY JOBS (Career Ladder Structure)

A USAF occupational analysis begins with an examination of the career ladder structure. This analysis is based on what personnel are doing in the ladder as determined from task responses, in contrast to official career ladder document definitions of their job. The job structure for the Bomb-Navigation Systems career ladder was determined by performing a job type analysis of the 466 survey respondents from the AFSC 321XO career ladder.

Based on task similarity and time spent, Bomb-Navigation Systems personnel separated into six different jobs (see Figure 1). These jobs are identified below. The stage (STG) number is a reference to computer-printed information. The letter "N" stands for the number of personnel in the group.

- I. FLIGHTLINE PERSONNEL (STG40, N=232)
- II. QUALITY ASSURANCE PERSONNEL (STG112, N=6)
- III. SUPERVISORY PERSONNEL (STG26, N=36)
- IV. SUPPLY PERSONNEL (STG49, N=7)
- V. SHOP PERSONNEL (STG45, N=141)
- VI. FLIGHTLINE PRODUCTION PERSONNEL (STG55, N=5)

321XO SPECIALTY JOBS (N=466)

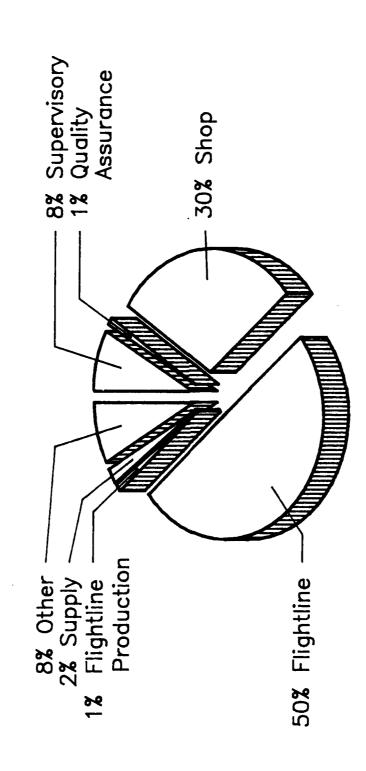


Figure 1

Ninety-two percent of the survey sample are included within these jobs. The remaining 8 percent performed tasks, or a series of tasks, that did not group with any of the defined job types. Some job titles given by these respondents include: Controller, First Sergeant, Group OJT Monitor, and Dispatcher.

Job Descriptions

The following paragraphs offer a brief description of each major job area identified in this analysis. Task lists for each major job are given in Appendix A. Selected background information is provided in Table 1 and the relative time members spend in each duty area is shown in Table 2.

I. FLIGHTLINE PERSONNEL (N=232). Based on SAC's ROLS concept of organization, the Bomb-Navigation Systems career ladder is divided into AMS (Shop) and OMS (Flightline) groups. This same division is clearly identified within the career ladder structure. Seventy-six percent of this group are 3- and 5-skill level personnel. Members have been in the career ladder an average of 50 months and are in their second enlistment (74 months average TAFMS). Thirty-seven percent are in their first enlistment. Thirty-five percent indicate they supervise. Ninety-one percent of those included in the Flightline Personnel job indicate they are assigned to the flightline; 8 percent are involved in training activities.

Members of this group perform an average of 151 tasks. One hundred sixteen of these tasks are performed by at least two-thirds of the group members and make up or account for 70 percent of their job time. They spend a third of their job time performing flightline maintenance on the ASQ-176 Offensive Avionics System (OAS). Additionally, they spend 15 percent of their time performing flightline maintenance on the ASQ-176 OAS Terrain Avoidance (TA) Radar System and 14 percent on ASQ-151 Electro-Optical Viewing System (EVS). Twelve percent of their time is spent performing general flightline maintenance tasks. At present, only 2 percent of their time is spent performing flightline maintenance on the APQ-166 Strategic Radar (SR) System. Less than 1 percent of their time is spent on shop tasks.

Examples of common tasks performed by members within the Flightline job include:

make entries on AFTO Forms 349
inspect nuclear hardened cables or connectors
inspect or service desiccants
perform component replacement checks
isolate malfunctions within ASQ-151 EVS forward looking
infrared (FLIR) systems
perform operational checks of ASQ-151 EVS STV systems
remove or replace ASQ-151 EVS DPG line replaceable units
(LRU)
remove or replace ASQ-151 EVS FLIR scanner assemblies

TABLE 1
SELECTED BACKGROUND DATA FOR 321X0 CAREER LADDER STRUCTURE GROUPS

			30B	JOB GROUPS		
	FL TL PERS (N=232)	QA PERS (N=6)	SUPVRY PERS (N=36)	SUP PERS (N=7)	SHOP PERS (N=141)	FLTL PRODUCTION PERSONNEL (N=5)
PERCENT OF TOTAL SAMPLE	20%	%	8	2%	30%	*
DAFSC DISTRIBUTION (PERCENT RESPONDING) 32130 32150 32170	30% 46% 24%	- 2001	- 6% 84%	, 2001 -	22 4 72 8 45 85	- \$00L
PREDOMINANT PAYGRADE(S) AVERAGE MONTHS IN CAREER LADDER AVERAGE MONTHS IN SERVICE PERCENT FIRST ENLISTMENT	E3-E5 50 74 37%	E5, E6 134 146	E6,E7 148 191	E3,E4 31 51	E3-E5 53 66 35%	E7 191 196 -
PERCENT SUPERVISING AVERAGE NUMBER OF TASKS PERFORMED	35% 151	50% 57	94% 101	14% 34	40% 197	100% 18

TABLE 2

AVERAGE PERCENT TIME SPENT ON DUTIES BY CAREER LADDER STRUCTURE GROUPS (PERCENT MEMBERS RESPONDING)*

JOB GROUPS

DUTIES	FLTL PERS (N=232)	QA PERS (N=6)	SUPVRY PERS (N=36)	SUP PERS (N=7)	SHOP PERS (N=141)	FLTL PRODUCTION PERSONNEL (N=5)
A ORGANIZING AND PLANNING B DIRECTING AND IMPLEMENTING C INSPECTING AND EVALUATING	~~~	7 5 2	71 81 91	၁၈၈		24 21 18
TRAINING	ىد مى اد	ខ្មែ	35	. r Z	- 67 R	2 2 1
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PERFORMING GENERAL	o 4	- 4	. –	၁ တ	ואס	\
I PERFORMING GENERAL FLILINE MAINTENANCE TASKS J PERFORMING FIIINE MAINT ON ASO-176 OAS TA	12	S.	1		ı	Ξ
RADAR SYS	15	ı	ı	•	•	
PERFORMING FLTLINE MAINT ON ASQ-1	4	_	1	•	1	•
PERFORMING FLTLINE MAINT ON ASQ-176	33	•	_	2	1	•
MAINT FIELD	7	•	1	•	1	
TASKS	ı	•	2	S	91	•
	•	4	2	•	ო	
MAINT	ı	7	5	ı	15	2

^{*} Columns may not add up to 100 percent due to rounding - Indicates less than 1 percent

TABLE 2 (CONTINUED)

AVERAGE PERCENT TIME SPENT ON DUTIES BY CAREER LADDER STRUCTURE GROUPS (PERCENT MEMBERS RESPONDING)*

JOB GROUPS

DUTIES	FLTL PERS (N=232)	QA PERS (N=6)	SUPVRY PERS (N=36)	SUP PERS (N=7)	SHOP PERS (N=141)	FLTL PRODUCTION PERSONNEL (N=5)
Q PERFORMING FIELD SHOP MAINT ON ASM-653 SAT R PERFORMING FIELD SHOP MAINT ON FVS/04S IRL	1	ı		t	ო	ı
		•	•	1	13	ı
MATNT	1	2	_	•	7	ì
	ı	1	•	ı	ဖ	•
	1	1	ı	•	က	ı
_	•	7	_	•	2	ı
SETS AND INS LRU PERFORMING FIFI D SHOP MAINT	1 1	~ ~	– 1	1 6	4-	1 1
·	ı	. 2	_) I	- 2	ı ı

^{*} Columns may not add up to 100 percent due to rounding - Indicates less than 1 percent

isolate malfunctions within inertial navigation systems (INS)
perform ASN-136 initialization and inertial measurement equipment (IME)/GMCP checkouts

Some of their most time-consuming tasks include:

remove or replace aircraft OAS line replaceable units (LRU) open or close aircraft radomes remove or replace ASQ-151 EVS FLIR scanner assemblies clean ASQ-151 EVS turret windows perform ASQ-176 OAS ground cooling and system power applications remove or replace ASQ-151 EVS STV camera assemblies

Within the Flightline Personnel job, several small groups, such as Flight Chiefs, First-Term Personnel, and Instructors, were found. Additionally, Flightline Personnel working on the APQ-166 Strategic Radar (SR) System were also identified. For instance, five members grouped together based on their activities as OJT Instructors, apparently on the APQ-166 Strategic Radar System. Although there are some variations, the jobs of personnel assigned to the flightline are basically homogeneous.

II. QUALITY ASSURANCE PERSONNEL (N=6). Quality assurance was listed as the job title by six members who grouped together based on their performance of inspecting, evaluating, administrative, and training tasks. They inspect:

support equipment or special tools in-shop maintenance actions nuclear hardened cables or connectors ASM-470 EVS test sets ASM-641 INS test sets Reinstrumented Terrain Computer (RTC) ASM-468 test sets

They also evaluate:

quality control procedures personnel for compliance with Technical Orders serviceability of equipment personnel for need of training All of the members of this group are 7-skill level. They are senior personnel who have been in the career ladder an average of 134 months and in the service 146 months. They perform an average of 57 tasks; however, 38 tasks performed by at least two-thirds of the six members occupy 65 percent of their time.

III. <u>SUPERVISORY PERSONNEL (N=36)</u>. Thirty-six Bomb-Navigation Systems personnel merged to form a supervisory/administrative job group. Members of this group have different functional responsibilities, such as Maintenance Analysis/Work Center Supervisor, Branch Chief, and Field Shop Supervisor; however, their supervisory role has brought them together. As a group, they spend about three-fourths of their job time in areas of administration and supervision. Common tasks performed include:

inspect personnel for compliance with military standards write APR compile data for reports counsel subordinates, such as on job progress, military-related matters, and personal matters establish performance standards for subordinates interpret directives for subordinates

Overall, members of the Supervisory Personnel job group are doing very few technical tasks. Their job is one of supervision and administration. They perform an average of 101 tasks, with 22 common tasks occupying a fourth of their job time. They perform a wide range of additional duties which include acting as Equipment Custodian, Due-in-from-Maintenance Monitor, Maintenance Management Information Control System (MMICS) Monitor, Test Equipment Monitor, Training OJT Monitor, and Precision Measuring Equipment (PME) Monitor. Several of the Instructor Supervisors were also included within the overall group of supervisors. These members average 148 months in the career ladder and 191 months in the service. Forty-two percent of this group are eligible to retire.

IV. SUPPLY PERSONNEL (N=7). Seven career ladder members formed a group based on their performance of supply-related tasks. All indicate their functional area of responsibility as Test Equipment/Tool Room. They spend 44 percent of their job time performing general supply tasks, such as:

inspect support equipment or special tools issue equipment or supplies inventory equipment or tools evaluate serviceability of equipment maintain consolidated tool kits (CTK) make entries on AFTP Forms 350 (Reparable Item Processing Tag) repair cables, other than nuclear hardened cables

annotate and attach equipment status labels or tags to equipment research microfiche files or Technical Orders for supply requisition data

These members perform a very restricted job. They perform an average of 34 tasks, spending 50 percent of their time on 16 tasks. All are 5-skill levels with an average time in the career ladder of 31 months and 51 months in the Air Force. Over half are in their first enlistment, and all have been in their current assignment less than 2 years. They perform additional duties, such as Test Equipment Monitor and PME Monitor.

V. SHOP PERSONNEL (N=141). Shop Personnel represent 30 percent of the survey sample. Seventy-five percent of this group are 3- and 5-skill level. They average 53 months in the career ladder and 66 months in the service. Thirty-five percent are in their first enlistment, with 26 percent in the first job (less than 2 years of total service time). Forty percent of the Shop Personnel indicate they supervise. Generally, they describe their job titles as Field Shop Mechanic or Technician (83 percent) or Field Shop Supervisor (16 percent). Three percent indicate they are instructors. Primary functional areas of responsibility are listed below:

ASM-479AX Test Set	40%
ASM-653 System Avionic Test (SAT)	23%
ASM-470 EVS Test, CAM/SCAN Maintenance	19%
ASQ-176 OAS, General	12%

Members of this group perform a wide range of functions, averaging 197 tasks. They perform 91 core tasks (at least two-thirds of the members performing) which occupy almost half of their job time. Some of their most time-consuming tasks are given below:

make entries on AFTO Forms 349
make entries on AFTO Forms 350 (Reparable Item Processing Tag)
remove or replace printed circuit boards
assemble or disassemble offensive avionics system (OAS)
line replaceable units (LRU) or LRU subassemblies
pack of unpack OAS LRU
research illustrated parts breakdown (IPB) for OAS Field Shop
Maintenance
perform in-shop corrosion control procedures on LRU
solder terminals or wires
align reinstrumented terrain computers (RTC)
remove or replace FLIR scanner shop replaceable units (SRU)

They spend 19 percent of their job time performing general field shop maintenance tasks.

Among the Shop Personnel, there were differences based primarily on equipment used. Although personnel may seem to specialize in use of one test set, they can work on all sets. Apparently, if a person becomes adept with one test set, he or she will be assigned to operate that particular set. The major tests sets are the ASM-653 System Avionics Tester (SAT), ASM-479AX Test Set, and the ASM-470 EVS Test Set. There are overlapping features on the test sets as well as unique features for each one. More senior personnel maintain the test sets. A small group performing field shop mainterance on the ASQ-176 OAS LRU and APO-166 Strategic Radar LRU using APM-440 Radar Test Set (RTS) was identified.

VI. FLIGHTLINE PRODUCTION PERSONNEL (N=5). The last group is identified as Flightline Production Personnel. Three-fourths of their time is spent on organizing, planning, directing, implementing, inspecting, evaluating, and performing administrative tasks. Fifty percent of their time is spent on the following eight tasks:

determine work priorities
direct flightline maintenance vehicles
drive flightline maintenance vehicles
schedule work priorities
inspect personnel for compliance with military standards
coordinate work request with Maintenance Control
write APR
write recommendations for awards and decorations
plan or schedule work assignments

These five members are all 7-skill level and all supervise. Four of the five indicate their job title is Flightline Dispatcher, while one is a Flightline Supervisor. They represent the most senior of the job groups with an average time in the career ladder of 191 months and an average of 196 months in the service. They perform a very restricted job, averaging 18 tasks, geared toward more of a management role on the flightline. Their job is probably close to that of the Work Center Supervisor, who is more directly involved in shop responsibilities.

Comparison to Previous Survey

The previous survey for the Bomb-Navigation Systems career ladder was accomplished in 1977. Since that time, the career ladder has undergone several major changes which include conversion to new equipment and a new maintenance concept (ROLS). The K- and L-shred designations which denoted specific aircraft and type of system maintained were deleted in 1984.

The 1977 OSR identified four major job areas and two specialized jobs. These jobs are outlined in Table 3. The main focus of the career ladder has remained the same. Divisions were found in 1977 and in the current survey for flightline and shop maintenance. Personnel previously assigned the K-shred

TABLE 3

COMPARISON OF JOB GROUPS FOR CURRENT AND PREVIOUS INVENTORY

1977 REPORT	CURRENT REPORT
B-52D BNS MAINTENANCE PERSONNEL (N=69)	
B-52G/H BNS LINE MAINTENANCE PERSONNEL (N=342)	FLIGHTLINE PERSONNEL (N=232)
B-52G/H BNS SHOP MAINTENANCE PERSONNEL (N=64)	SHOP PERSONNEL (N=141)
MANAGEMENT, SUPERVISION AND TRAINING PERSONNEL (N=99)	SUPERVISORY PERSONNEL (N=36)
JOB CONTROL MONITORS (N=16)	FLIGHTLINE PRODUCTION PERSONNEL (N=5)
OJT MONITORS (N=12)	•
•	QUALITY ASSURANCE PERSONNEL (N=6)
•	SUPPLY PERSONNEL (N=7)

(B-52G/H aircraft) separated into flightline and shop maintenance groups. However, personnel assigned to the L-shred apparently performed both flightline and shop maintenance on the B-52D aircraft. In the current survey, separate jobs were identified for Quality Assurance Personnel and Supply Personnel. These jobs involve a small number of people and are specialized responsibilities. The previous inventory identified a separate job for OJT Monitors which did not appear as a separate job in the current analysis.

In summary, although the systems have changed, the basic type of job performed by Bomb-Navigation Systems personnel remains fairly stable.

ANALYSIS OF DAFSC GROUPS

An examination of DAFSC groups, in conjunction with the analysis of the specialty jobs, is an important part of each occupational analysis. The DAFSC analysis reveals similarities and differences among the various skill levels in relation to the tasks they perform and the relative time spent on particular duties. The information is used to assess the accuracy of career ladder documents, such as the Specialty Descriptions (AFR 39-1) and the Specialty Training Standard (STS), as well as to determine potential training needs.

Table 4 presents the relative percent time spent in each duty across skill levels (information is also shown for shop and flightline skill levels). This table illustrates the pattern of career progression in the ladder. As shown, 3-, 5-, and 7-skill level personnel focus their time in the technical areas. The 7-skill level begins to develop some supervisory experience, but only about a fourth of their job time is spent on management tasks. Specific skill levels are discussed below.

DAFSC 32130/32150. A comparison of duty and task performance between 3- and 5-skill level personnel indicates the job they perform is essentially the same; therefore, they are discussed as one group. Three- and 5-skill level personnel (N=311) represent 67 percent of the survey sample. The 3- and 5-skill level personnel perform many tasks in common (time spent overlap is 76 percent). The tasks which show differences between the skill levels reflect the job expansion and the beginning of supervisory responsibilities rather than differences in performance of technical tasks. Three-skill level members perform an average of 109 tasks compared to an average of 163 tasks by 5-skill level personnel. As a total group, the Bomb-Navigation Specialists do not show high concentrations of time in any one area. Table 5 presents representative tasks performed by these airmen.

The distribution of skill level personnel across the career ladder job areas is displayed in Table 6. As would be expected, most 3- and 5-skill level personnel are found within the Flightline and Shop Personnel Jobs. As

TABLE 4

AVERAGE PERCENT TIME SPENT ON DUTIES BY DAFSC GROUPS (PERCENT MEMBERS RESPONDING)*

		TOTAL	TOTAL SAMPLE	FLIG	FLIGHTLINE PERS	ERS	SHO	SHOP PERSONNEI	VEL
		3/50 (N=311)	70 (N=155)	30 (N=70)	50 (N=99)	70 (N=65)	30 (N=42)	50 (N=72)	70 (N=38)
•	ORGANIZING AND PLANNING	_	œ	1	_	00		- 2	4
~	DIRECTING AND IMPLEMENTING		_	•	. 2	,	•	۰ د	- 4
ပ	INSPECTING AND EVALUATING		თ	•	7	. ω	ı	ı —	. rv
_	TRAINING	က	6	_	2	_	1	က	·ro
ш		9	=	Ŋ	2	6	2	မ	- ∞
L	GENERAL SUPPLY	4	ဖ	7	က	4	7	9	∞
G	PERFORMING CUT TASKS	7	_	က	က	~	,	_	ı
工		s	က	2	2	က	_	ر ما	4
—	PERFORMING GENERAL FLTLINE MAINTENANCE								
	TASKS	œ	r.	ĸ	12	6	_	_	_
7	PERFORMING FLTLINE MAINT ON ASQ-176 OAS TA		1	ı	ļ	ı	-	3	
	RADAR SYS	σ	J.	ഹ	91	=	ı	•	
¥	S	9	4	7	<u>5</u>	თ	0	0	0
_	MAINT ON AS	20	9	4	32	2]	•	-	· -
Σ	MAINT ON					I		i	•
	SYSTEM	_	_	7	က		ı	1	•
z	PERFORMING GENERAL FIELD SHOP MAINTENANCE	c	•				;	ļ	;
0	PERFORMING FIFID SHOP MAINT ON ASM-46R	Ö	t	ı	•	ı	/7	>	2
•									
		-	_	•	•	•	4	4	2
۵	PERFORMING FIELD SHOP MAINT ON ASQ-176 DAS	,	,			ı			ı
c	CES WOR	- و	w c	•	1	_	ည ပ	<u>م</u>	2
-	PERFORMING FIELD SHOP MAIN! ON ASM-655 SA!	_	-	ı		1	7	ຠ	7

* Columns may not add up to 100 percent due to rounding - Indicates less than 1 percent

TABLE 4 (CONTINUED)

TO SECOND AND DESCRIPTION OF PRESERVED DESCRIPTION OF SECOND OF SE

AVERAGE PERCENT TIME SPENT ON DUTIES BY DAFSC GROUPS (PERCENT MEMBERS RESPONDING)*

	TOTAL	TOTAL SAMPLE	FL 1G	FLIGHTLINE PERS	ERS	SS	SHOP PERSONNEL	NEL
	3/20	70	30	20	70	30	20	70
	(N=311)	(N=311) (N=155)	(N=70)	(N=70) (N=99) (N=65)	(N=65)	(N=42)	(N=72)	(N=38)
REPRESENTING FIELD SHOP MAINT ON EVS/DAS								
LRU USING ASM-479AX TEST SETS	ശ	က	1	1	ı	12	12	=
S PERFORMING FIELD SHOP MAINT ON ASM-479AX						!	!	
TEST SET	7	ന	1	•	•	_	7	7
I PERFORMING FIELD SHOP MAINT ON EVS LRU		,				-	•	•
USINGASM-470 EVS TEST SET	2		1	٠	•	v	יר	7
J PERFORMING FIELD SHOP MAINT ON ASM-470 EVS	10	•				•	,	•
	~	_	•	•	•	_	67	^
/ PERFORMING FIELD SHOP MAINT ON ASM-661		•				-	•	ı
TMATS AND TM ASSEMBLIES		-	•	4		^	~	^
A PERFORMING FIELD SHOP MAINT ON ASM-641						J	J	1
INS TEST SETS AND INS LRU	ı	_	•	1		m	4	67
(PERFORMING FIELD SHOP MAINT ON SMDPS	•		ı	•	•		· ,- -	۰ د
/ PERFORMING FLD SHOP MAINT ON ASQ-176 DAS							-	ı
LRU AND APQ-166 STRATEGIC RADAR LRU USING	(B							
APM-440 RADAR TEST SET		•	•	ı	•	4	2	_

* Columns may not add up to 100 percent due to rounding - Indicates less than 1 percent

TABLE 5 REPRESENTATIVE TASKS PERFORMED BY DAFSC 32130/32150 AIRMEN (NUMBER OF MEMBERS: 311)

TASKS		PERCENT MEMBERS PERFORMING
H246	SERVICE FORWARD LOOKING INFRARED (FLIR) SCANNER HELIUM INSPECT OR SERVICE DESICCANTS MAKE ENTRIES ON AFTO FORMS 349	83
H240	INSPECT OR SERVICE DESICCANTS	82
E137	MAKE ENTRIES ON AFTO FORMS 349	82
E138	INSPECT OR SERVICE DESICCANTS MAKE ENTRIES ON AFTO FORMS 349 MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) REPAIR COAXIAL OR CRIMPED CONNECTIONS INSPECT NUCLEAR HARDENED CABLES OR CONNECTORS REPAIR CABLES, OTHER THAN NUCLEAR HARDENED CABLES SOLDER TERMINALS OR WIRES CLEAN ELECTRO-OPTICAL VIEWING SYSTEMS (EVS) LENS INVENTORY EQUIPMENT OR TOOLS OPEN OR CLOSE AIRCRAFT RADOMES CLEAN EVS MIRRORS REMOVE OR REPLACE ASQ-151 EVS FLIR SCANNER ASSEMBLIES CLEAN ASQ-151 EVS TURRET WINDOWS PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS FLIR SYSTEMS	
	TAG)	81
H243	REPAIR COAXIAL OR CRIMPED CONNECTIONS	77
H239	INSPECT NUCLEAR HARDENED CABLES OR CONNECTORS	77
H242	REPAIR CABLES, OTHER THAN NUCLEAR HARDENED CABLES	75
H247	SOLDER TERMINALS OR WIRES	74
H237	CLEAN ELECTRO-OPTICAL VIEWING SYSTEMS (EVS) LENS	59
F174	INVENTORY EQUIPMENT OR TOOLS	57
I 255	OPEN OR CLOSE AIRCRAFT RADOMES	56
H238	CLEAN EVS MIRRORS	56
K323	REMOVE OR REPLACE ASQ-151 EVS FLIR SCANNER ASSEMBLIES	56
K309	CLEAN ASQ-151 EVS TURRET WINDOWS PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS FLIR SYSTEMS PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS STV SYSTEMS	55
K318	PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS FLIR SYSTEMS	55
K320	PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS STV SYSTEMS	55
1267	PERFORM OPERATIONAL CHECKS OF ASO-151 EVS STV SYSTEMS REMOVE OR REPLACE AIRCRAFT OAS LÎNE REPLACEABLE UNITS (LRU) PERFORM ASN-136 INS SHUTDOWNS	54
L345	PERFORM ASN-136 INS SHUTDOWNS	54
	REMOVE OR REPLACE ASQ-151 EVS STV CAMERA ASSEMBLIES RESEARCH AIRCRAFT TECHNICAL ORDER (TO) SCHEMATICS, SUCH AS	54
1269	RESEARCH AIRCRAFT TECHNICAL ORDER (TO) SCHEMATICS, SUCH AS	
	CIRCUIT OR WIRING DIAGRAMS	54
H244	REPAIR NUCLEAR HARDENED CONNECTORS OR MULTIPIN CONNECTORS PERFORM ASO-176 DAS GMCP LOADINGS	54
L370	PERFORM ASQ-176 OAS GMCP LOADINGS	54
1264	REMOVE OR REPLACE AIRCRAFT DESICCANTS OR DESICCATOR	
	ASSEMBLIES	53
K324	REMOVE OR REPLACE ASQ-151 EVS FLIR SIGNAL PROCESSORS	53
L364	PERFORM ASO-176 OAS CONTROLS AND DISPLAYS SHUTDOWNS	53
K313	ISOLATE MALFUNCTIONS WITHIN ASQ-151 EVS FORWARD LOOKING	
	PERFORM ASQ-176 OAS GMCP LOADINGS REMOVE OR REPLACE AIRCRAFT DESICCANTS OR DESICCATOR ASSEMBLIES REMOVE OR REPLACE ASQ-151 EVS FLIR SIGNAL PROCESSORS PERFORM ASO-176 OAS CONTROLS AND DISPLAYS SHUTDOWNS ISOLATE MALFUNCTIONS WITHIN ASQ-151 EVS FORWARD LOOKING INFRARED (FLIR) SYSTEMS PERFORM ASQ-176 OAS GROUND COOLING AND SYSTEM POWER APPLICATIONS PERFORM ASQ-176 OAS PREOPERATIONAL CONTROL SETTINGS REMOVE OR REPLACE AIRCRAFT RECEIVER-TRANSMITTER	52
L371	PERFORM ASQ-176 DAS GROUND COOLING AND SYSTEM POWER	50
	APPLICATIONS	52
L383	PERFORM ASQ-176 DAS PREOPERATIONAL CONTROL SETTINGS	52
J299	REMOTE OF REFERENCE MINORAL INCOMPLETE	
	MODULATORS (RTM)	52
K314	ISOLATE MALFUNCTIONS WITHIN ASQ-151 EVS STEERABLE	50
	TELEVISION (STV) SYSTEMS	52
L363		Ε0.
	AND TURN ON PROCEDURES	52
L341	ISOLATE MALFUNCTIONS WITHIN INERTIAL NAVIGATION SYSTEMS	E 0
V225	(INS)	52 52
K316		52 51
L362	PERFORM ASO-176 OAS COMPUTATIONAL SYSTEM SHUTDOWNS	5 i

TABLE 6 DISTRIBUTION OF DAFSC GROUP MEMBERS ACROSS
CAREER LADDER JOB GROUPS
(PERCENT MEMBERS)*

JOB GROUPS	32130/50 (N=311)	32170 (N=155)
FLIGHTLINE PERSONNEL	57%	35%
QUALITY ASSURANCE PERSONNEL	-	4%
SUPERVISORY PERSONNEL	-	22%
SUPPLY PERSONNEL	2%	-
SHOP PERSONNEL	34%	23%
FLIGHTLINE PRODUCTION PERSONNEL	•	3%
OTHER (N=40)**	6%	13%

Indicates less than 1 percent
 * Columns may not add up to 100 percent due to rounding
 ** Those incumbents not grouping in any of the above job groups

shown in Table 6, 57 percent of the specialists are found within the Flightline Personnel job and 34 percent within the Shop Personnel job. When analyzing responses for all 3- and 5-skill level personnel, there are few shop tasks among those tasks performed by the greatest percentage.

DAFSC 32170. The 155 AFSC 32170 members also provide technical support for the career ladder. They perform in the same duties as 3- and 5-skill level members, but they are spending less time on the technical tasks. Thirty-five percent of the 7-skill level personnel were found within the Flightline Personnel job; 23 percent in the Shop Personnel job; and 22 percent within the Supervisory Personnel group. Smaller percentages were found within the Quality Assurance (4 percent) and Flightline Production (3 percent) jobs. They spend a fourth of their job time on management activities, 17 percent on administrative and supply tasks, and 9 percent in the area of training. Although 77 percent of the technicians supervise, the primary focus of their job is technical. They perform an average of 155 tasks. Representative tasks are shown in Table 7. Examples of tasks which differentiate between the specialist and technician level are shown in Table 8. The tasks which differentiate are primarily tasks which reflect management activities and fewer members performing common technical tasks.

Flightline vs Shop DAFSC Comparison

As stated earlier, SAC's ROLS concept of organization divides the Bomb-Navigation Systems career ladder into AMS (Shop) and OMS (Flightline) groups. This division is also clearly identified within the career ladder structure. The survey sample shop vs flightline division is shown by skill level below.

PERCENT ASSIGNED TO:

DAFSC	SHOP	FLIGHTLINE	OTHER
3-Skill Level (N=112)	38%	62%	-
5-Skill Level (N=199)	36%	50%	14%
7-Skill Level (N-155)	25%	42%	33%
Total (N=466)	33%	50%	17%

Differences in the jobs performed by personnel assigned to a shop or to the flightline are highlighted in Table 4. Since these members are basically performing different jobs, DAFSC information is presented below for each skill level by functional area.

TABLE 7

REPRESENTATIVE TASKS PERFORMED BY DAFSC 32170 AIRMEN (NUMBER OF MEMBERS: 155)

TASKS		PERCENT MEMBERS PERFORMING
C74	WRITE APR	81
C70	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS MAKE ENTRIES ON AFTO FORMS 349 DETERMINE WORK PRIORITIES MAKE ENTRIES IN OJT RECORDS MAKE ENTRIES ON CABINET, SAFE, OR ROOM SECURITY FORMS COUNSEL SUBORDINATES, SUCH AS ON JOB PROGRESSION, MILITARY-	79
E 137	MAKE ENTRIES ON AFTO FORMS 349	70
A7	DETERMINE WORK PRIORITIES	69
D 100	MAKE ENTRIES IN OJT RECORDS	69
E141	MAKE ENTRIES ON CABINET, SAFE, OR ROOM SECURITY FORMS	68
B29	COUNSEL SUBORDINATES, SUCH AS ON JOB PROGRESSION, MILITARY-	••
	RELATED MATTERS, AND PERSONAL MATTERS	68
	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING	•••
2.00	RELATED MATTERS, AND PERSONAL MATTERS MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	66
D95	EVALUATE PROGRESS OF TRAINEES	64
H239	INSPECT NUCLEAR HARDENED CARLES OR CONNECTORS	63
A23	SCHEDULE WORK PRIORITIES	61
D81	CONDUCT OUT	61
D85	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	61
H240	INSPECT OR SERVICE DESICCANTS	61
H243	REPAIR COAXIAL OR CRIMPED CONNECTIONS	59
F120	FDIT AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)	59
F174	INVENTORY FOULTPMENT OR TOOLS	59
D99	MAINTAIN TRAINING RECORDS	57
A3	COMPILE DATA FOR REPORTS	57
D84	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) EVALUATE PROGRESS OF TRAINEES INSPECT NUCLEAR HARDENED CABLES OR CONNECTORS SCHEDULE WORK PRIORITIES CONDUCT OJT DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION INSPECT OR SERVICE DESICCANTS REPAIR COAXIAL OR CRIMPED CONNECTIONS EDIT AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD) INVENTORY EQUIPMENT OR TOOLS MAINTAIN TRAINING RECORDS COMPILE DATA FOR REPORTS COUNSEL TRAINEES ON TRAINING PROGRESS REPAIR CABLES, OTHER THAN NUCLEAR HARDENED CABLES SERVICE FORWARD LOOKING INFRARED (FLIR) SCANNER HELIUM SOLDER TERMINALS OR WIRES PLAN OR SCHEDULE WORK ASSIGNMENTS INTERPRET DIRECTIVES FOR SUBORDINATES INSPECT SUPPORT EQUIPMENT OR SPECIAL TOOLS WRITE RECOMMENDATIONS FOR AWARDS AND DECORATIONS ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES MAKE ENTRIES ON AIRCRAFT FLIGHT OR MAINTENANCE RECORD FORMS, SUCH AS AFTO FORMS 781 SERIES	56
H242	REPAIR CABLES. OTHER THAN NUCLEAR HARDENED CABLES	55
H246	SERVICE FORWARD LOOKING INFRARED (FLIR) SCANNER HELIUM	55
H247	SOLDER TERMINALS OR WIRES	55
A19	PLAN OR SCHEDULE WORK ASSIGNMENTS	55
B44	INTERPRET DIRECTIVES FOR SUBORDINATES	54
C71	INSPECT SUPPORT EQUIPMENT OR SPECIAL TOOLS	54
C75	WRITE RECOMMENDATIONS FOR AWARDS AND DECORATIONS	52
A14	ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES	50
E 140	MAKE ENTRIES ON AIRCRAFT FLIGHT OR MAINTENANCE RECORD FORMS.	
	SUCH AS AFTO FORMS 781 SERIES	48
1 120	TAKE ENTRIES ON ALL ONNS EGGS (1555E) FORM IN REGUEST	47
D94	EVALUATE PERSONNEL FOR NEED OF TRAINING	46
E 121	EXAMINE AFTO FORMS 95 (SIGNIFICANT HISTORICAL DATA) FOR	
	RECURRING EQUIPMENT PROBLEMS	45
B28	CONDUCT SUPERVISORY ORIENTATIONS OF NEWLY ASSIGNED PERSONNEL	43
E136	MAKE ENTRIES ON AFTO FORMS 244 AND 245 (INDUSTRIAL/SUPPORT	
	EQUIPMENT RECORD AND CONTINUATION SHEET)	43
F202	RESEARCH MICROFICHE FILES OR TECHNICAL ORDERS FOR SUPPLY	
	REQUISITION DATA	43
F164	ANNOTATE AND ATTACH EQUIPMENT STATUS LABELS OR TAGS TO	
	EOUIPMENT	43

TABLE 8

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 32130/50 AND 32170 PERSONNEL (PERCENT MEMBERS PERFORMING)

TASKS		32130/32150	32170
H246	SERVICE FORWARD LOOKING INFRARED (FLIR) SCANNER HELIUM	83	55
1264	REMOVE OR REPLACE AIRCRAFT DESICCANTS OR DESICCATOR ASSEMBLIES	53	28
H240	INSPECT OR SERVICE DESICCANTS	82	61
J299	REMOVE OR REPLACE AIRCRAFT RECEIVER-TRANSMITTER MODULATORS		
	(RTM)	52	31
K309	CLEAN ASQ-151 EVS TURRET WINDOWS	55	34
L345	PERFORM ASN-136 INS SHUTDOWNS	54	34
K323	REMOVE OR REPLACE ASQ-151 EVS FLIR SCANNER ASSEMBLIES	55	35
L344	PERFORM ASN-136 INS POSITION DRIFT CHECKS	51	30
L383	PERFORM ASQ-176 OAS PREOPERATIONAL CONTROL SETTINGS	52	32
K320	PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS STV SYSTEMS	55	35
L369	PERFORM ASQ-176 OAS END OF TEST OPTIONS	50	30
L372	PERFORM ASQ-176 OAS INTEGRATED KEYBOARD (IKB) CHECKOUTS	51	31
****	*****************	******	*****
C74	WRITE APR	26	81
C70	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS	28	79
A23	SCHEDULE WORK PRIORITIES	15	61
C75	WRITE RECOMMENDATIONS FOR AWARDS AND DECORATIONS	6	52
B29	COUNSEL SUBORDINATES, SUCH AS ON JOB PROGRESSION, MILITARY-		
	RELATED MATTERS, AND PERSONAL MATTERS	24	68
A3	COMPILE DATA FOR REPORTS	14	57
A7	DETERMINE WORK PRICRITIES	27	69

FLIGHTLINE PERSONNEL

DAFSC 32130. Seventy 3-skill level personnel indicate they perform flightline duty. This number represents 62 percent of the 3-skill level personnel in the survey sample. They spend a little over a third of their job time performing flightline maintenance on the ASQ-176 OAS, 17 percent on the ASQ-151 EVS, and 15 percent on the ASQ-176 OAS TA Radar System. Fifteen percent of their time is also spent performing general flightline maintenance. They perform an average of 108 tasks. Some of their most time-consuming tasks include:

open or close aircraft radomes remove or replace aircraft OAS line replaceable units (LRU) clean ASQ-151 EVS turret windows remove or replace ASQ-151 EVS FLIR scanner assemblies perform ASQ-176 OAS ground cooling and system power applications

Table 9 presents representative tasks performed by these flightline airmen.

DAFSC 32150. Half (99 members) of the 5-skill level Bomb-Navigation personnel are working on the flightline. Generally, they perform the same duties as the 3-skill level personnel (time spent overlap is 80 percent); however, there are some slight differences as shown in Table 10. Five-skill level personnel are directing flightline maintenance activities indicating the beginning of work level supervisory positions. Examples of tasks performed by 5-skill level personnel are given in Table 11. They average 152 tasks.

DAFSC 32170. Seven-skill level flightline personnel represent 42 percent of the Bomb-Navigation Systems technicians. These 65 technicians are still spending half of their duty time in the same areas as the 3- and 5-skill level personnel (time spent overlap is 67 percent). Eighty-two percent indicate they supervise, but many of these are at the worker level rather than management level. Forty-three actually indicate their job title as "flightline supervisor". Their most time-consuming tasks do indicate their increased level of responsibility. For example, they

direct flightline maintenance activities inspect personnel for compliance with military standards write APR schedule work priorities

Representative tasks (average is 138) for this group are given in Table 12. Tasks which distinguish between the specialists and technician level are shown in Table 13.

TABLE 9

REPRESENTATIVE TASKS PERFORMED BY DAFSC 32130 FLIGHTLINE PERSONNEL (NUMBER OF MEMBERS: 70)

TASKS	5	PERCENT MEMBERS PERFORMING
K309	CLEAN ASQ-151 EVS TURRET WINDOWS	99
1255	OPEN OR CLOSE ATRCRAFT RADOMES	07
1267	REMOVE OR REPLACE AIRCRAFT OAS LINE REPLACEABLE UNITS (IRII)	94
K323	REMOVE OR REPLACE ASO-151 EVS FLIR SCANNER ASSEMBLIES	94
K324	REMOVE OR REPLACE ASO-151 EVS FLIR SIGNAL PROCESSORS	91
K320	REMOVE OR REPLACE AIRCRAFT OAS LINE REPLACEABLE UNITS (LRU) REMOVE OR REPLACE ASQ-151 EVS FLIR SCANNER ASSEMBLIES REMOVE OR REPLACE ASQ-151 EVS FLIR SIGNAL PROCESSORS PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS STV SYSTEMS REMOVE OR REPLACE AIRCRAFT ACCESS BANKIS	91
1261	VEHIOLE OF VELEVEE VIKCKAL! MCCESS LAMETS	90
K328	REMOVE OR REPLACE ASO-151 EVS STV CAMERA ASSEMBLIES	90
K318	PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS FLIR SYSTEMS	90
J299	REMOVE OR REPLACE AIRCRAFT RECEIVER-TRANSMITTER MODULATORS	
	(RTM)	90
H239	INSPECT NUCLEAR HARDENED CABLES OR CONNECTORS	89
L370	PERFORM ASQ-176 OAS GMCP LOADINGS	89
	PERFORM ASN-136 INS SHUTDOWNS	89
L371		
TOCO	APPLICATIONS	87
	PLACE RF WARNING SIGNS AND LIGHTS	87
1200	REMOVE OR REPLACE ASQ-151 EVS STV CAMERA ELECTRONICS	87
J300		
U240	(RTC) INSPECT OR SERVICE DESICCANTS	87 26
	PERFORM ASQ-176 DAS PHYSICAL INSPECTIONS OF RADOMES	86 86
L397		86
LUJI	EQUIPMENT (IME)	86
1269		80
	CIRCUIT OR WIRING DIAGRAMS	86
1264		00
	ASSEMBLIES	86
L383	PERFORM ASQ-176 OAS PREOPERATIONAL CONTROL SETTINGS PERFORM ASQ-176 OAS NAVIGATOR AREA PHYSICAL INSPECTIONS REMOVE OR REPLACE ASQ-151 EVS TURRET WINDOWS PERFORM ASQ-176 OAS SYSTEM AND COOLING SHUTDOWNS PERFORM ASO-176 OAS CONTROLS AND DISPLAYS SHUTDOWNS	84
L375	PERFORM ASQ-176 OAS NAVIGATOR AREA PHYSICAL INSPECTIONS	84
K333	REMOVE OR REPLACE ASQ-151 EVS TURRET WINDOWS	84
<u> 1</u> 391	PERFORM ASQ-176 OAS SYSTEM AND COOLING SHUTDOWNS	83
		83
K313	ISOLATE MALFUNCTIONS WITHIN ASQ-151 EVS FORWARD LOOKING	
	INFRARED (FLIR) SYSTEMS	83
L343	PERFORM ASN-136 INITIALIZATION AND INERTIAL MEASUREMENT	
	EQUIPMENT (IME)/GMCP CHECKOUTS	81
K314	ISOLATE MALFUNCTIONS WITHIN ASO-151 EVS STEERABLE	
	TELEVISION (STV) SYSTEMS	81
L344		81
L398	REMOVE OR REPLACE AIRCRAFT ASQ-176 OAS LRU	80
L362	PERFORM ASQ-176 OAS COMPUTATIONAL SYSTEM SHUTDOWNS	80

TABLE 10

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 32130 AND 32150 FLIGHTLINE PERSONNEL (PERCENT MEMBERS PERFORMING)

TASKS		32130	32150
K327	REMOVE OR REPLACE ASQ-151 EVS PILOTS NARROW FIELD-OF-		
	VIEW SWITCHES	10	58
L357	PERFORM ASQ-176 OAS AUTOPILOT SYSTEM INTERFACE CHECKOUTS	19	61
L368	PERFORM ASQ-176 OAS ELECTRONIC COUNTERMEASURES (ECM)		
	BLANKING INTERFACE CHECKS	41	81
C74	WRITE APR	1	40
L394	PERFORM ASQ-176 OAS WEAPON RELEASE SIMULATION CHECKS	33	72
J296	PERFORM TA SYSTEM RADIO FREQUENCY (RF) CHECKS	14	53
L355	PERFORM ASQ-176 OAS APN-69 BLANKING TIE-IN CHECKS	34	72
I 249		41	79
K326	REMOVE OR REPLACE ASQ-151 EVS INDICATED AIRSPEED		
	TRANSDUCERS	33	70
L385	PERFORM ASQ-176 OAS RADAR AUTOMATIC FREQUENCY CONTROL		
	(AFC) CHECKS	30	67
D85	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	7	43
L356	PERFORM ASQ-176 OAS ATTITUDE HEADING REFERENCE SYSTEM		
	(AHRS) INTERFACE CHECKS	27	63
L348	PERFORM ASQ-176 OAS ANTENNA BORESIGHT LEVELINGS	34	69

TABLE 11 REPRESENTATIVE TASKS PERFORMED BY DAFSC 32150 FLIGHTLINE PERSONNEL (NUMBER OF MEMBERS: 99)

TASKS		PERCENT MEMBERS PERFORMING
1255	OPEN OR CLOSE AIRCRAFT RADOMES	90
K323	REMOVE OR REPLACE ASQ-151 EVS FLIR SCANNER ASSEMBLIES	90
K324	DEMOVE OD DEDLACE ACO 161 EVE ELID CICNAL DROCECCORC	90
I 267	REMOVE OR REPLACE AIRCRAFT OAS LINE REPLACEABLE UNITS (LRU)	89
K309	CLEAN ACO 151 EVC TUDDET LINDOUC	00
L345	PERFORM ASN-136 INS SHUTDOWNS REMOVE OR REPLACE ASQ-151 EVS TURRET WINDOWS REMOVE OR REPLACE ASQ-151 EVS STV CAMERA ASSEMBLIES REMOVE OR REPLACE ASQ-151 EVS STV CAMERA ELECTRONICS PERFORM ASQ-176 OAS CONTROLS AND DISPLAYS SHUTDOWNS PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS FLIR SYSTEMS PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS STV SYSTEMS PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS STV SYSTEMS PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS STV SYSTEMS	89
K333	REMOVE OR REPLACE ASQ-151 EVS TURRET WINDOWS	89
K328	REMOVE OR REPLACE ASQ-151 EVS STV CAMERA ASSEMBLIES	88
K329	REMOVE OR REPLACE ASQ-151 EVS STV CAMERA ELECTRONICS	88
L364	PERFORM ASQ-176 OAS CONTROLS AND DISPLAYS SHUTDOWNS	88
K318	PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS FLIR SYSTEMS	88
K320	PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS STV SYSTEMS	88
K313	ISOLATE MALFUNCTIONS WITHIN ASQ-151 EVS FORWARD LOOKING INFRARED (FLIR) SYSTEMS	88
K314	ISOLATE MALFUNCTIONS WITHIN ASQ-151 EVS STEERABLE TELEVISION (STV) SYSTEMS	88
L341		
	(* N.C.)	88
L370		88
1261	REMOVE OR REPLACE AIRCRAFT ACCESS PANELS	87
L371	PERFORM ASO-176 OAS GROUND COOLING AND SYSTEM POWER	
	APPLICATIONS	87
L363	PERFORM ASO-176 OAS CONTROLS AND DISPLAYS POWER	
	APPLICATION AND TURN ON PROCEDURES	87
L362	PERFORM ASO-176 OAS COMPUTATIONAL SYSTEM SHUTDOWNS	87
J299	REMOVE OR REPLACE AIRCRAFT RECEIVER TRANSPILLIER	
	MODULATORS (RTM) SERVICE FORWARD LOOKING INFRARED (FLIR) SCANNER HELIUM	87
H246	SERVICE FORWARD LOOKING INFRARED (FLIR) SCANNER HELIUM	87
K316	PERFORM ASQ-151 EVS SYMBOL CHECKS	87
L397	REMOVE OR REPLACE AIRCRAFT ASN-136 INERTIAL MEASUREMENT	
	EQUIPMENT (IME)	86
1269	RESEARCH AIRCRAFT TECHNICAL ORDER (TO) SCHEMATICS, SUCH	
	AS CIRCUIT OR WIRING DIAGRAMS	86
L343	PERFORM ASN-136 INITIALIZATION AND INERTIAL MEASUREMENT	
	EOUIPMENT (IME)/GMCP CHECKOUTS	86
L383	PERFORM ASQ-176 OAS PREOPERATIONAL CONTROL SETTINGS	86
H242		86
L358	PERFORM ASQ-176 OAS AVIONICS CONTROL UNIT (ACU) OPERATIONAL	
	CHECKOUTS	86
1271	SAFETY WIRE COMPONENT MOUNTS OR CONNECTING PLUGS ON AIRCRAFT	86

TABLE 12

REPRESENTATIVE TASKS PERFORMED BY DAFSC 32170 FLIGHTLINE PERSONNEL (NUMBER OF MEMBERS: 65)

TASKS		PERCENT MEMBERS PERFORMING
C74	WRITE APR	86
1251		80
E 140		
	SUCH AS AFTO FORMS 781 SERIES	80
C70		
E137	MAKE ENTRIES ON AFTO FORMS 349	77
1267		74
E 138	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING	
_	TAG)	74
B32		72
A7		72
	BRIEF OR DEBRIEF FLIGHT CREWS	72
1269	RESEARCH AIRCRAFT TECHNICAL ORDER (TO) SCHEMATICS, SUCH AS	
	CIRCUIT OR WIRING DIAGRAMS	72
H239	INSPECT NUCLEAR HARDENED CABLES OR CONNECTORS	72
L364	PERFORM ASQ-176 DAS CONTROLS AND DISPLAYS SHUTDUWNS	72
1255	OPEN OR CLUSE AIRCRAFT RADOMES	72
K313	ISOLATE MALFUNCTIONS WITHIN ASQ-151 EVS FORWARD LOUKING	71
K200	INFRAKEU (FLIK) SYSIEMS	/ I
K320	CIRCUIT OR WIRING DIAGRAMS INSPECT NUCLEAR HARDENED CABLES OR CONNECTORS PERFORM ASQ-176 OAS CONTROLS AND DISPLAYS SHUTDOWNS OPEN OR CLOSE AIRCRAFT RADOMES ISOLATE MALFUNCTIONS WITHIN ASQ-151 EVS FORWARD LOOKING INFRARED (FLIR) SYSTEMS PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS STV SYSTEMS PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS FLIR SYSTEMS REMOVE OR REPLACE AIRCRAFT ASQ-176 OAS LRU PERFORM ASQ-176 OAS GMCP LOADINGS REMOVE OR REPLACE ASQ-151 EVS FLIR SCANNER ASSEMBLIES REMOVE OR REPLACE ASQ-151 EVS STV CAMERA ASSEMBLIES ISOLATE MALFUNCTIONS WITHIN INERTIAL NAVIGATION SYSTEMS (INS)	/ J 71
K3 18	PERFORM OPERATIONAL CHECKS OF ASQ-131 EVS FLIK STSTEMS	71
1270	DEDECTOR ASC 176 CAS CHOD LOADINGS	71
F370	DEMOVE OF DEDITION AND CHICK FOUND ACCEMBITED	69
K323	DEMOVE OR REPLACE ASQ-151 EVS FLIR SCHNICK ASSEMBLIES	69
13/1	ICALATE MALEUMATIANS WITHIN INFOTIAL NAVIGATION SYSTEMS	03
LJTI	(INC)	69
K314		03
KSIT	TELEVISION (STV) SYSTEMS	69
K324	REMOVE OR REPLACE ASO-151 EVS ELIR SIGNAL PROCESSORS	69
K329	REMOVE OR REPLACE ASO-151 EVS STV CAMERA ELECTRONICS	69
L340	ISOLATE MALFUNCTIONS WITHIN CONTROLS AND DISPLAYS	69
L343	PERFORM ASN-136 INITIALIZATION AND INERTIAL MEASUREMENT	
	FOUTPMENT (IME)/GMCP CHECKOUTS	69
L397	REMOVE OR REPLACE AIRCRAFT ASN-136 INERTIAL MEASUREMENT	
	EOUIPMENT (IME)	69
1259	PERFORM OAS POWER OFF CHECKOUTS	69
K309		69
L336	ISOLATE MALFUNCTIONS WITHIN ASQ-176 OAS SUBSYSTEMS USING	
	FLIGHT CONTROL PROGRAMS (FCP)	68
L354	PERFORM ASQ-176 OAS ANTENNA TILT GAIN AND STABILIZATION	
	RATIO ADJUSTMENTS	68

TABLE 13

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 32150
AND 32170 FLIGHTLINE PERSONNEL
(PERCENT MEMBERS PERFORMING)

1 NOV 2	·	32 150	32 1/0
L367	PERFORM ASQ-176 OAS DUMMY RADIATE CHECKS	80	48
I264			
	ASSEMBLIES	86	55
L355	PERFORM ASQ-176 OAS APN-69 BLANKING TIE-IN CHECKS	72	43
L368			
	BLANKING INTERFACE CHECKS	81	52
L352		79	51
L357		61	34
L350		٠.	•
2000	CHECKS AND DRAINING PROCEDURES	71	45
K315		83	57
L359		83	57
L377		81	55
L386		• •	
	(RNMP) CHECKOUTS	82	57
			1.1.1.1.1.1
****	******************	*****	****
C74	WRITE APR	40	86
B32	DIRECT FLIGHTLINE MAINTENANCE ACTIVITIES	28	72
C70	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS	36	78
A7	DETERMINE WORK PRIORITIES	33	72
A23	SCHEDULE WORK PRIORITIES	22	60
C67	INSPECT AIRCRAFT MAINTENANCE ACTIONS	22	58
B44	INTERPRET DIRECTIVES FOR SUBORDINATES	11	46

SHOP PERSONNEL

DAFSC 32130. Forty-two 3-skill level shop personnel spend 27 percent of their time performing general field shop maintenance; 13 percent performing field shop maintenance on ASQ-176 OAS LRU using ASM-653; and 12 percent performing field shop maintenance on EVS/OAS LRU using ASM-479AX test sets. Their remaining time is divided among the remaining OAS systems. Examples of their most time-consuming tasks include:

remove or replace printed circuit boards
make entries on AFTO Forms 350 (Reparable Item Processing Tag)
make entries on AFTO Forms 349
pack or unpack OAS LRU
research illustrated parts breakdown (IPB) for OAS Field Shop
maintenance
assemble or disassemble offensive avionics system (OAS) line
replaceable units (LRU) or LRU subassemblies

On the average they perform 110 tasks. Representative tasks are presented in Table 14.

DAFSC 32150. These 72 shop members spend the major portion of their job time in the same areas as the 3-skill level shop members. However, they spend less time on general maintenance and begin to maintain the test sets. They also begin to assume a supervisory role in the shop setting. For example, Table 15 highlights tasks which are performed by the 5-level. These show technical tasks, such as isolate malfunctions within ASM-479AX test adapters, and supervisory tasks, such as write APR. Performing an average of 198 tasks, representative tasks are listed in Table 16.

<u>DAFSC 32170</u>. The technicians assigned to the shop (N=38) are primarily performing a technical job. However, they also perform a role as first-line supervisor. Along with the specialists, two of their most time-consuming tasks are "Make entries on AFTO Forms 349 and 350". Other tasks reflecting their time include:

inspect in-shop maintenance actions certify status of reparable, serviceable, or condemned parts conduct OJT

Fifty-five percent indicate their present job is Field Supervisor and 40 percent Field Shop Technician. Typical tasks are given in Table 17. Tasks which differentiate between the 5- and 7-level shop member generally reflect a higher administrative role (see Table 18). They perform an average of 235 tasks, which is a much wider range than performed by flightline technicians.

TABLE 14

REPRESENTATIVE TASKS PERFORMED BY DAFSC 32130 SHOP PERSONNEL (NUMBER OF MEMBERS: 42)

TASKS		PERCENT MEMBERS PERFORMING
H247	SOLDER TERMINALS OR WIRES	98
N452	REMOVE OR REPLACE PRINTED CIRCUIT BOARDS	93
N436	PACK OR UNPACK OAS LRU	93
N435	PACK OR UNPACK ELECTROSTATIC SENSITIVE DEVICES (ESD)	93
N456	PACK OR UNPACK ELECTROSTATIC SENSITIVE DEVICES (ESD) RESEARCH ILLUSTRATED PARTS BREAKDOWN (IPB) FOR OAS FIELD	
	SHOP MAINTENANCE	90
N421		
	REPLACEABLE UNITS (LRU) OR LRU SUBASSEMBLIES	90
N425	CLEAN DUST FILTERS	90
N455		
	CIRCUIT OR WIRING DIAGRAMS	88
N426	CLEAN OAS LRU OR LRU SUBASSEMBLIES	88
E138	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING	
	TAG)	86
E137	MAKE ENTRIES ON AFTO FORMS 349	86
N447	REMOVE OR REPLACE CONNECTOR PLUGS	83
H243	REPAIR COAXIAL OR CRIMPED CONNECTIONS	83
N449	REMOVE OR REPLACE DUST FILTERS	81
H240	INSPECT OR SERVICE DESICCANTS	81
H246	TAG) MAKE ENTRIES ON AFTO FORMS 349 REMOVE OR REPLACE CONNECTOR PLUGS REPAIR COAXIAL OR CRIMPED CONNECTIONS REMOVE OR REPLACE DUST FILTERS INSPECT OR SERVICE DESICCANTS SERVICE FORWARD LOOKING INFRARED (FLIR) SCANNER HELIUM PERFORM IN-SHOP CORROSION CONTROL PROCEDURES ON LRU CLEAN ELECTRO-OPTICAL VIEWING SYSTEMS (EVS) LENS REMOVE OR REPLACE DESICCANTS DURING FIELD SHOP MAINTENANCE REPAIR CABLES, OTHER THAN NUCLEAR HARDENED CABLES	81
N44 1	PERFORM IN-SHOP CORROSION CONTROL PROCEDURES ON LRU	/9 70
H237	CLEAN ELECTRO-OPTICAL VIEWING SYSTEMS (EVS) LENS	/9 70
N448	REMOVE OR REPLACE DESICCANTS DURING FIELD SHOP MAINTENANCE	/9 70
H242	REPAIR CABLES, OTHER THAN NUCLEAR HARDENED CABLES	79 76
N45U	CLEAN ELECTRO-OPTICAL VIEWING SYSTEMS (EVS) LENS REMOVE OR REPLACE DESICCANTS DURING FIELD SHOP MAINTENANCE REPAIR CABLES, OTHER THAN NUCLEAR HARDENED CABLES REMOVE OR REPLACE ESD CLEAN OAS SUPPORT EQUIPMENT CLEAN EVS MIRRORS REMOVE OR REPLACE CIRCUIT COMPONENTS PACK OR UNPACK OAS MODULES OR SUBASSEMBLIES PERFORM CONTINUITY CHECKS OF INDIVIDUAL CIRCUITS OR CIRCUIT	76 76
N42/	CLEAN DAS SUPPORT EQUIPMENT	76 76
H238	CLEAN EVS MIKKUKS	76 74
N445	NEMUYE UK KEPLACE CIKCUII CUMPUNENIS	74 74
N437	PACK OR UNPACK OAS MODULES OR SUBASSEMBLIES PERFORM CONTINUITY CHECKS OF INDIVIDUAL CIRCUITS OR CIRCUIT	/4
11430	COMPONENTS	74
N/422	LACE OR REMOVE LACING FROM INTERNAL LRU WIRING ASSEMBLIES	
F202		74
1 202	REQUISITION DATA	71
R569		źi
R572	REMOVE OR REPLACE OAS MULTIFUNCTION DISPLAY (MFD) SRU	źi
0461	ALIGN REINSTRUMENTED TERRAIN COMPUTERS (RTC)	69
W682	PERFORM OPERATIONAL CHECKS OF INERTIAL MEASUREMENT UNITS	03
HOUL	(IMU)	69
R567		69
	REPAIR NUCLEAR HARDENED CONNECTORS OR MULTIPIN CONNECTORS	69
	INVENTORY EQUIPMENT OR TOOLS	67

TABLE 15 REPRESENTATIVE TASKS PERFORMED BY DAFSC 32150 SHOP PERSONNEL (NUMBER OF MEMBERS: 72)

TASKS		PERCENT MEMBERS PERFORMING
E138		
	TAG)	94
N452	REMOVE OR REPLACE PRINTED CIRCUIT BOARDS	93
N436	PACK UK UNPACK UAS LKU	93
N435	PACK OR UNPACK DAS LRU PACK OR UNPACK ELECTROSTATIC SENSITIVE DEVICES (ESD)	93
E 13/	MARE ENIKIES UN AFIU FURMS 349	92
N421	DEDIACEARIE HATTE (IRIL) OR IRIL CHRACCEMPLITE	02
H247	SOLDER TERMINALS OR WIRES SERVICE FORWARD LOOKING INFRARED (FLIR) SCANNER HELIUM	92
H246	SERVICE FORWARD LOOKING INFRARED (FLIR) SCANNER HELIUM	92
N448	REMOVE OR REPLACE DESICCANTS DURING FIELD SHOP MAINTENANCE	90
N456	REMOVE OR REPLACE DESICCANTS DURING FIELD SHOP MAINTENANCE RESEARCH ILLUSTRATED PARTS BREAKDOWN (IPB) FOR OAS FIELD SHOP MAINTENANCE PERFORM IN-SHOP CORROSION CONTROL PROCEDURES ON LRU CLEAN DUST FILTERS REPAIR COAXIAL OR CRIMPED CONNECTIONS RESEARCH FIELD SHOP TECHNICAL ORDER SCHEMATICS, SUCH AS CIRCUIT OR WIRING DIAGRAMS CLEAN OAS LRU OR LRU SUBASSEMBLIES INSPECT RTC REMOVE OR REPLACE DUST FILTERS INSPECT OR SERVICE DESICCANTS REPAIR CABLES, OTHER THAN NUCLEAR HARDENED CABLES ALIGN REINSTRUMENTED TERRAIN COMPUTERS (RTC) CLEAN OAS SUPPORT EQUIPMENT	
	SHOP MAINTENANCE	89
N447	PERFORM IN-SHOP CORROSION CONTROL PROCEDURES ON LRU	89
N425	CLEAN DUST FILTERS	89
H243	REPAIR COAXIAL OR CRIMPED CONNECTIONS	89
N455	RESEARCH FIELD SHOP TECHNICAL ORDER SCHEMATICS, SUCH AS	
	CIRCUIT OR WIRING DIAGRAMS	88
N426	CLEAN OAS LRU OR LRU SUBASSEMBLIES	88
0467	INSPECT RTC	85
N449	REMOVE OR REPLACE DUST FILTERS	85
H240	INSPECT OR SERVICE DESICCANTS	83
H242	REPAIR CABLES, OTHER THAN NUCLEAR HARDENED CABLES	83
0461	ALIGN REINSTRUMENTED TERRAIN COMPUTERS (RTC)	82
N427	CLEAN CAS SUPPORT EQUIPMENT	82
N438	CLEAN OAS SUPPORT EQUIPMENT PERFORM CONTINUITY CHECKS OF INDIVIDUAL CIRCUITS OR CIRCUIT COMPONENTS	82
11226	CLEAN CATHODE DAY THREE (CDT)	02
N230	CLEAN CATHODE RAY TUBES (CRT) REMOVE OR REPLACE SERVO CONTROL UNIT (SCU) SRU CLEAN EVS MIRRORS REMOVE OR REPLACE ESD REMOVE OR REPLACE AVIONICS CONTROL UNIT (ACU) SRU INSPECT INCOMING EQUIPMENT REMOVE OR REPLACE CONNECTOR PLUGS	02 01
K2/2	CLEAN ENG MIDDODS	Q1
NAFO	DEMONE OD DEDI VCE EGD	70
N43U	DEMOVE OR REPLACE ESD	79 70
NA20	THEORET THEOREM FOR FORTHUL CHIRD CH	79 70
N43U	DEMOVE OD DEDLACE CONNECTOD DLUCG	79 79
N447	REMOVE OR REPLACE CONNECTOR PLUGS LACE OR REMOVE LACING FROM INTERNAL LRU WIRING ASSEMBLIES PERFORM EVS LRU OPERATIONAL CHECKS USING ASM-479AX TEST SET	79 79
N432	DEDECOM EVE I DII ODEDATIONAL CHECKS LICING ASMLATORY TEST SET	78
K330	REMOVE OR REPLACE EVS MONITOR SRU	78
N442		, 0
14776	EOUIPMENT	78
N446	REMOVE OR REPLACE CIRCUIT COMPONENTS	78

TABLE 16

TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 32130
AND 32150 SHOP PERSONNEL
(PERCENT MEMBERS PERFORMING)

TASKS		<u>32 130</u>	<u>32150</u>
D81	CONDUCT OJT	10	61
P509	PERFORM OPERATIONAL CHECKS OF RADAR INTERFACE UNITS (RIU)		
	USING ASM-653 SAT	17	67
C74	WRITE APR	0	49
S594	ISOLATE MALFUNCTIONS WITHIN ASM-479AX TEST ADAPTERS	5	51
P489	ISOLATE MALFUNCTIONS WITHIN TERRAIN TEST CONTROLS USING		
	ASM-653 SAT	17	61
S590	CALIBRATE VIDEO GENERATORS	0	43
P510	PERFORM OPERATIONAL CHECKS OF RADAR SCAN CONVERTERS (RSC)	-	
	USING ASM-653 SAT	17	60
S588	CALIBRATE PROGRAMMABLE PLUSE GENERATORS (PPG)	2	44
P481	ISOLATE MALFUNCTIONS WITHIN ASQ-176 OAS SYSTEM RELAY	-	-
	FRAMES USING ASM-653 SAT	17	58
P502	PERFORM OPERATIONAL CHECKS OF DTUCM USING ASM-653 SAT	24	65
P516	PERFORM RADAR ANTENNA SYNCHRO ALIGNMENTS USING ASM-653 SAT	21	62
D85	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	21	62
W676	ISOLATE MALFUNCTIONS WITHIN ASM-641 INS TEST SETS	10	50
A7	DETERMINE WORK PRIORITIES	7	47
P500	PERFORM OPERATIONAL CHECKS OF DATA TRANSFER UNIT CARTRIDGES	•	••
	(DTUC) USING ASM-653 SAT	31	71
P521	PERFORM TERRAIN TEST CONTROL ALIGNMENTS USING ASM-653 SAT	14	54

TABLE 17 REPRESENTATIVE TASKS PERFORMED BY DAFSC 32170 SHOP PERSONNEL (NUMBER OF MEMBERS: 38)

TASKS		PERCENT MEMBERS PERFORMING
E137	MAKE ENTRIES ON AFTO FORMS 349	97
E141	MAKE ENTRIES ON CABINET, SAFE, OR ROOM SECURITY FORMS	97
E 138	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING	
	TAG)	95
	CERTIFY STATUS OF REPARABLE, SERVICEABLE, OR CONDEMNED PARTS	95
F 190	MAKE ENTRIES ON AF FORMS 2005 (ISSUE/TURN IN REQUEST)	92
D81		89
C74	WRITE APR	89
	MAKE ENTRIES IN OJT RECORDS	89
	INSPECT IN-SHOP MAINTENANCE ACTIONS	87
N421	ASSEMBLE OR DISASSEMBLE OFFENSIVE AVIONICS SYSTEM (OAS)	0.7
	LINE REPLACEABLE UNITS (LRU) OR LRU SUBASSEMBLIES RESEARCH FIELD SHOP TECHNICAL ORDER SCHEMATICS, SUCH AS	87
N455		
. 7	CIRCUIT OR WIRING DIAGRAMS	87 87
A7	DETERMINE WORK PRIORITIES	87
N456	RESEARCH ILLUSTRATED PARTS BREAKDOWN (IPB) FOR OAS FIELD SHOP MAINTENANCE	87
N/2E		87 87
N435	PACK OR UNPACK ELECTROSTATIC SENSITIVE DEVICES (ESD) PACK OR UNPACK OAS LRU	87 87
N430		
B29		67
	RELATED MATTERS, AND PERSONAL MATTERS	87
	SOLDER TERMINALS OR WIRES	87
C70	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS	
N452	REMOVE OR REPLACE PRINTED CIRCUIT BOARDS	84
R558	PERFORM EVS LRU OPERATIONAL CHECKS USING ASM-479AX TEST SET	
E 136		•
	EQUIPMENT RECORD AND CONTINUATION SHEET)	84
H243		84
H246	REPAIR COAXIAL OR CRIMPED CONNECTIONS SERVICE FORWARD LOOKING INFRARED (FLIR) SCANNER HELIUM	84
0467	SCHEDULE WORK PRIORITIES INSPECT RTC DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION CLEAN CAS LRU OR LRU SUPASSEMBLIES	82
D85	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	82
N426	LIPAN DAS IKU UK IKU SUBASSEMBIJES	0/
N441	PERFORM IN-SHOP CORROSION CONTROL PROCEDURES ON LRU	82
N442	PERFORM IN-SHOP CORROSION CONTROL PROCEDURES ON SUPPORT	
	EQUIPMENT	82
N427		82
N438	PERFORM CONTINUITY CHECKS OF INDIVIDUAL CIRCUITS OR CIRCUIT	
	COMPONENTS	82
N425	CLEAN DUST FILTERS	82
H240	INSPECT OR SERVICE DESICCANTS	82

TABLE 18 TASKS WHICH BEST DIFFERENTIATE BETWEEN DAFSC 32150 AND 32170 SHOP PERSONNEL (PERCENT MEMBERS PERFORMING)

TASK	<u>S</u>	32150	<u>32170</u>
A23	SCHEDULE WORK PRIORITIES	19	82
C65	INSPECT IN-SHOP MAINTENANCE ACTIONS	29	87
B29	COUNSEL SUBORDINATES, SUCH AS ON JOB PROGRESSION, MILITARY- RELATED MATTERS, AND PERSONAL MATTERS	35	87
C70	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITRY STANDARDS	35	84
E 120	EDIT AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)	31	79
D 95	EVALUATE PROGRESS OF TRAINEES	35	79
B44	INTERPRET DIRECTIVES FOR SUBORDINATES	19	61
A 19	PLAN OR SCHEDULE WORK ASSIGNMENTS	22	63
D 100	MAKE ENTRIES IN OJT RECORDS	49	89
C74	WRITE APR	49	89
C75	WRITE RECOMMENDATIONS FOR AWARDS AND DECORATIONS	7	47

ANALYSIS OF AFSC 321XO AFR 39-1 SPECIALTY DESCRIPTIONS

Survey data were compared to the AFR 39-1 Specialty Descriptions for the Bomb-Navigation Systems career ladder, AFSC 321XO. These descriptions are intended to give a broad overview of the duties and tasks performed in each skill level of a specialty. The specialty description appears to adequately reflect the responsibility of the Bomb-Navigation Systems positions at present.

SPECIALTY TRAINING

Occupational survey data are a source of information which may be used to determine requirements for training and relevancy of training documents. factors which may be used to review training are primarily percent members performing tasks and, secondarily, training emphasis (TE) and task difficulty (TD) ratings. TE ratings indicate which tasks experienced personnel in the career ladder feel are important for newly enlisted members to know to be able to do their job. These ratings do not necessarily imply that training must be in a resident training course; training may be provided through such means as OJT, FTD, and CDCs. Senior personnel rate each task on a scale of 0 through 9, 0 indicating no training is required and 9 indicating that a very high emphasis should be placed on training that task. These ratings are processed to produce a rank-order listing of tasks from a high degree of emphasis to no training required. The TD ratings provide a guide as to how difficult the tasks are to learn. The average TD rating is set to 5 so this value can be used as a reference to determine how much time will be needed to teach task knowledge or performance. These factors may assist managers in determining the most appropriate tasks to train and the most appropriate type of training: formal training (structure), Career Development Course (CDC), or OJT (supplementary or advanced).

First-Enlistment Personnel

First-enlistment personnel are the target group for the initial resident training course. OSR data provide information which can be used by training personnel to develop or review training programs. For example, percent members performing task data are available for first-job (1-24 months TAFMS) and first-enlistment (1-48 months TAFMS) groups. Background data provide such information as areas where respondents work and equipment used. Data from the career ladder structure analysis show the type of jobs being performed by newly assigned airmen (see Figure 2). TE and TD ratings provide a consensus of opinion from experienced raters in what they consider important for training and how difficult the tasks are to learn.

321XO SPECIALTY JOBS FIRST-ENLISTMENT PERSONNEL (N=144)

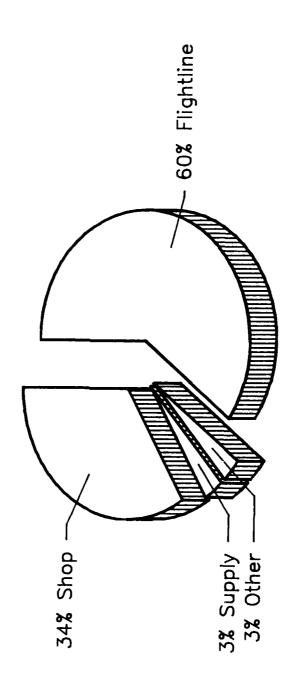


Figure 2

First-enlistment personnel comprise 31 percent of all AFSC 321X0 personnel. Of the 144 first-enlistment personnel, 62 percent are assigned to the flightline and 36 percent assigned to field shop maintenance. In the past, all personnel completing the basic resident course were assigned to the flightline. Before being assigned to a shop, they were normally sent to a 5-level course. The present policy does not strictly follow the previous guidelines, and first-termers are being located in shops either after the basic resident course or after serving a short time on the flightline. The percentage, as with the entire career ladder, still heavily favors those assigned to flightline (about 2 to 1).

The jobs performed by Flightline Personnel and Shop Personnel, however, are very different. Table 19 shows the time spent in the various duties by the total 1-48 month sample and for those assigned to flightline or shop areas. As shown in Table 19, the time spent by first-enlistment personnel is very diversified. The largest concentration shown is 22 percent spent performing flightline maintenance on ASQ-176 OAS. In looking at the time spent individually by flightline and shop personnel, this diversity begins to disappear. Representative tasks for the total sample of first-enlistment personnel are shown in Table 20. Based on percentages, the tasks most frequently performed are related to flightline duties. Tables 21 and 22 show examples of tasks performed by first-term Flightline and Shop Personnel. Typical tasks for flightline first-termers include:

clean ASQ-151 EVS turret windows open or close aircraft radomes remove or replace OAS line replaceable units remove or replace ASQ-151 EVS FLIR scanner assemblies or signal processors

On the other hand, typical tasks for first enlistment Shop Personnel include:

solder terminals or wires
pack or unpack electrostatic sensitive devices (ESD) or
OAS LRU
remove or replace circuit boards
assemble or disassemble offensive avionics system (OAS)
line replaceable units (LRU) or LRU subassemblies

As would be expected, the equipment used by first-enlistment personnel also varies. Table 23 presents the equipment listed in the job inventory in order of percent of all first-enlistment personnel using that particular piece. Percent members using each piece of equipment is also show by shop and flightline group membership. While there is some equipment that is used commonly, such as the multimeter or oscilloscope, those in the shop are required to use a much wider range of equipment than those serving on the flightline.

TABLE 19 AVERAGE PERCENT TIME SPENT ON DUTIES BY FIRST ENLISTMENT PERSONNEL (PERCENT MEMBERS PERFORMING)*

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* Columns may not add up to 100 percent due to rounding		5	
	STRATEGIC RADAR LRU USING APM-440 RADAR TEST SET	1	-
38	38		

TABLE 20

REPRESENTATIVE TASKS PERFORMED BY ALL AIRMEN WITH 1-48 MONTHS TAFMS (NUMBER OF MEMBERS: 144)

TASKS		PERCENT MEMBERS PERFORMING
H246	SERVICE FORWARD LOOKING INFRARED (FLIR) SCANNER HELIUM INSPECT OR SERVICE DESICCANTS	83
E 138	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING	
	TAG)	80
E137	MAKE ENTRIES ON AFTO FORMS 349	80
H239	INSPECT NUCLEAR HARDENED CABLES OR CONNECTORS	76
H243	REPAIR COAXIAL OR CRIMPED CONNECTIONS	75
H247	SOLDER TERMINALS OR WIRES	73
H242	REPAIR CABLES, OTHER THAN NUCLEAR HARDENED CABLES	72
I255	OPEN OR CLOSE AIRCRAFT RADOMES	61
K309	CLEAN ASQ-151 EVS TURRET WINDOWS	60
1267	REMOVE OR REPLACE AIRCRAFT OAS LINE REPLACEABLE UNITS	50
	(LRU)	59
K323	REMOVE OR REPLACE ASQ-151 EVS FLIR SCANNER ASSEMBLIES	59
K324	REMOVE OR REPLACE ASQ-151 EVS FLIR SIGNAL PROCESSORS	59
H237	CLEAN ELECTRO-OPTICAL VIEWING SYSTEMS (EVS) LENS	59
K320	PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS STV SYSTEMS	58
L370	PERFORM ASQ-176 OAS GMCP LOADINGS	58
K328	REMOVE OR REPLACE ASQ-151 EVS STV CAMERA ASSEMBLIES	57
K329	REMOVE OR REPLACE ASQ-151 EVS STV CAMERA ELECTRONICS	57
K318	PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS FLIR SYSTEMS	57
L364	PERFORM ASQ-176 OAS CONTROLS AND DISPLAYS SHUTDOWNS	56
J299	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) MAKE ENTRIES ON AFTO FORMS 349 INSPECT NUCLEAR HARDENED CABLES OR CONNECTORS REPAIR COAXIAL OR CRIMPED CONNECTIONS SOLDER TERMINALS OR WIRES REPAIR CABLES, OTHER THAN NUCLEAR HARDENED CABLES OPEN OR CLOSE AIRCRAFT RADOMES CLEAN ASQ-151 EVS TURRET WINDOWS REMOVE OR REPLACE AIRCRAFT OAS LINE REPLACEABLE UNITS (LRU) REMOVE OR REPLACE ASQ-151 EVS FLIR SCANNER ASSEMBLIES REMOVE OR REPLACE ASQ-151 EVS FLIR SIGNAL PROCESSORS CLEAN ELECTRO-OPTICAL VIEWING SYSTEMS (EVS) LENS PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS STV SYSTEMS PERFORM ASQ-176 OAS GMCP LOADINGS REMOVE OR REPLACE ASQ-151 EVS STV CAMERA ASSEMBLIES REMOVE OR REPLACE ASQ-151 EVS STV CAMERA ELECTRONICS PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS FLIR SYSTEMS PERFORM ASQ-176 OAS CONTROLS AND DISPLAYS SHUTDOWNS REMOVE OR REPLACE AIRCRAFT RECEIVER-TRANSMITTER MODULATORS (RTM) REMOVE OR REPLACE AIRCRAFT DESICCANTS OR DESICCATOR ASSEMBLIES PLACE RF WARNING SIGNS AND LIGHTS SAFETY WIRE COMPONENT MOUNTS OR CONNECTING PLUGS ON AIRCRAFT PERFORM ASN-136 INS SHUTDOWNS LSOLATE MALEUNCTIONS WITHIN ASO-161 EVS FORWARD LOOKING	56
1264	DEMOVE OD DEDLACE AIDCDAFT DESICCANTS OR DESICCATOR	•
1204	ACCEMBITEC	56
1260	DIACE DE MADNING SIGNS AND LIGHTS	56
1200	CAPETY LIDE COMBONENT MOUNTS OF CONNECTING DINGS ON	30
12/1	ATDODACT	56
1 245	DEDECOM ACM 126 INC CHITTONIC	5 6
L343	PERFORM ASN-136 INS SHUTDOWNS ISOLATE MALFUNCTIONS WITHIN ASQ-151 EVS FORWARD LOOKING INFRARED (FLIR) SYSTEMS	50
K3 13	130FMIE LIWELOUGITONS MILLIN V26-121 FAS LOWNVA FOOKING	56
TACA	INFRARED (FLIR) SYSTEMS	50
1269	RESEARCH AIRCRAFT TECHNICAL ORDER (TO) SCHEMATICS, SUCH	56
	AS CIRCUIT UK WIKING DIAGRAMS	90
	REMOVE OR REPLACE AIRCRAFT ACCESS PANELS	55
K314		FF
	TELEVISION (STV) SYSTEMS	55
H238		55
L371		
	APPLICATIONS	54
J300		
	COMPUTEDS (DTC)	54

TABLE 21

REPRESENTATIVE TASKS PERFORMED BY 1-48 MONTHS TAFMS FLIGHTLINE PERSONNEL (NUMBER OF MEMBERS: 89)

TASKS		PERCENT MEMBERS PERFORMING
K309	CLEAN ASQ-151 EVS TURRET WINDOWS	96
1255	OPEN OR CLOSE AIRCRAFT RADOMES	92
1267	REMOVE OR REPLACE AIRCRAFT OAS LINE REPLACEABLE UNITS (LRU)	91
K323	REMOVE OR REPLACE AIRCRAFT OAS LINE REPLACEABLE UNITS (LRU) REMOVE OR REPLACE ASQ-151 EVS FLIR SCANNER ASSEMBLIES	91
K324		91
J299	PERFORM ASQ-176 OAS GMCP LOADINGS REMOVE OR REPLACE AIRCRAFT RECEIVER-TRANSMITTER MODULATORS (RTM) REMOVE OR REPLACE ASQ-151 EVS STV CAMERA ASSEMBLIES PLACE RF WARNING SIGNS AND LIGHTS REMOVE OR REPLACE ASQ-151 EVS STV CAMERA ELECTRONICS PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS STV SYSTEMS REMOVE OR REPLACE AIRCRAFT ACCESS PANELS PERFORM ASQ-176 OAS CONTROLS AND DISPLAYS SHUTDOWNS PERFORM ASN-136 INS SHUTDOWNS PERFORM ASQ-176 OAS GROUND COOLING AND SYSTEM POWER APPLICATIONS INSPECT NUCLEAR HARDENED CABLES OR CONNECTORS REMOVE OR REPLACE AIRCRAFT REINSTRUMENTED TERRAIN COMPUTERS (RTC)	90
vaao	THE COURSE OF THE ACT ACT IEI FUC CTU CAMEDA ACCEMBLIES	03
N320	NEMOVE OR MEDIANC STONE AND FIGHTS	00 00
1200	PEMOVE OF BEDLACE ACO 151 EVE CTV CAMERA ELECTRONICE	00
K329	REMUYE UK KEPLACE ASU-131 EVS SIV CAMERA ELECTRUNICS	88
K32U	PERFORM OPERATIONAL CHECKS OF ASU-151 EVS SIV SYSTEMS	88
1261	REMUYE UK KEPLACE AIRCKAFT ACCESS PANELS	87 07
L304	PERFORM ASY-1/6 DAS CONTROLS AND DISPLAYS SHUTDOWNS	87
L345	PERFURM ASN-136 INS SHUTDUWNS	8/
L3/1	PERFORM ASQ-1/6 DAS GROUND COULING AND SYSTEM POWER	0.5
	APPLICATIONS	85
H239	INSPECT NUCLEAR HARDENED CABLES OR CONNECTORS	85
J300	REMOVE OR REPLACE AIRCRAFT REINSTRUMENTED TERRAIN	
	COMPUTERS (RTC)	85
K318	PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS FLIR SYSTEMS	85
	ISOLATE MALFUNCTIONS WITHIN ASQ-151 EVS FORWARD LOOKING	
	INFRARED (FLIR) SYSTEMS	84
L383	PERFORM ASC-176 OAS PREOPERATIONAL CONTROL SETTINGS	83
1271	SAFETY WIRE COMPONENT MOUNTS OR CONNECTING PLUGS ON AIRCRAFT	83
K314	ISOLATE MALFUNCTIONS WITHIN ASQ-151 EVS STEERABLE	
	TELEVISION (STV) SYSTEMS	83
I 269		
	CIRCUIT OR WIRING DIAGRAMS	83
K333	REMOVE OR REPLACE ASQ-151 EVS TURRET WINDOWS	83
		82
L363	PERFORM ASQ-176 OAS SYSTEM AND COOLING SHUTDOWNS PERFORM ASQ-176 OAS CONTROLS AND DISPLAYS POWER APPLICATION	
L380	PERFORM ASQ-176 OAS PHYSICAL INSPECTIONS OF RADOMES	82
1264	DEMOVE OR DEDITOR ATDERATE DESTREAMITS OR DESTREATOR	
	ACCEMDITEC	82
H246	SERVICE FORWARD LOOKING INFRARED (FLIR) SCANNER HELIUM	82
L362	SERVICE FORWARD LOOKING INFRARED (FLIR) SCANNER HELIUM PERFORM ASQ-176 OAS COMPUTATIONAL SYSTEM SHUTDOWNS	81
H240	INSPECT OR SERVICE DESICCANTS	81

TABLE 22

REPRESENTATIVE TASKS PERFORMED BY 1-48 MONTHS TAFMS SHOP PERSONNEL (NUMBER OF MEMBERS: 53)

THE PROCESS CONTRACTOR CONTRACTOR

TASKS	5	PERCENT MEMBERS PERFORMING
H247	SOLDER TERMINALS OR WIRES	98
N435	SOLDER TERMINALS OR WIRES PACK OR UNPACK ELECTROSTATIC SENSITIVE DEVICES (ESD) REMOVE OR REPLACE PRINTED CIRCUIT BOARDS	94
N452	REMOVE OR REPLACE PRINTED CIRCUIT BOARDS	92
N436	PACK OR UNPACK OAS LRU	92
N427	ASSEMBLE OR DISASSEMBLE OFFENSIVE AVIONICS SYSTEM (OAS)	
	PACK OR UNPACK OAS LRU ASSEMBLE OR DISASSEMBLE OFFENSIVE AVIONICS SYSTEM (OAS) LINE REPLACEABLE UNITS (LRU) OR LRU SUBASSEMBLIES CLEAN DUST FILTERS	91
N425	CLEAN DUST FILTERS	89
H243	REPAIR COAXIAL OR CRIMPED CONNECTIONS	89
E 138	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING	
	TAG)	87
E137	MAKE ENTRIES ON AFTO FORMS 349	87
N456	RESEARCH ILLUSTRATED PARTS BREAKDOWN (IPB) FOR OAS FIELD	
	SHOP MAINTENANCE	87
H246	SERVICE FORWARD LOOKING INFRARED (FLIR) SCANNER HELIUM	85
N455	RESEARCH FIELD SHOP TECHNICAL ORDER SCHEMATICS, SUCH AS	
	CIRCUIT OR WIRING DIAGRAMS	83
N426	CLEAN OAS LRU OR LRU SUBASSEMBLIES	83
H240	INSPECT OR SERVICE DESICCANTS	83
N448	REMOVE OR REPLACE DESICCANTS DURING FIELD SHOP MAINTENANCE	83
N44 I	REMOVE OR REPLACE DESICCANTS DURING FIELD SHOP MAINTENANCE PERFORM IN-SHOP CORROSION CONTROL PROCEDURES ON LRU CLEAN ELECTRO-OPTICAL VIEWING SYSTEMS (EVS) LENS CLEAN EVS MIRRORS REPAIR CABLES, OTHER THAN NUCLEAR HARDENED CABLES PACK OR UNPACK OAS MODULES OR SUBASSEMBLIES REMOVE OR REPLACE CIRCUIT COMPONENTS	81
H237	CLEAN ELECTRO-UPITCAL VIEWING SYSTEMS (EVS) LENS	81 01
H238	CLEAN EVS MIKKURS	81
H242	REPAIR CABLES, UTHER THAN NUCLEAR HARVENED CABLES	Ø I 70
N43/	PACK OK UNDACK OAS MUDULES OK SUBASSEMBLIES	79 75
		75 75
N447 N438		
	ACHRANENTA	75
NAAQ	REMOVE OR REPLACE DUST FILTERS REMOVE OR REPLACE ESD ALIGN REINSTRUMENTED TERRAIN COMPUTERS (RTC) CLEAN OAS SUPPORT EQUIPMENT REMOVE OR REPLACE AVIONICS CONTROL UNIT (ACU) SRU	74
NASO	DEMOVE OF REPLACE DOST FILTERS	74
0461	ALTON DEINSTRUMENTEN TERRAIN COMPUTERS (RTC)	72
NA27	CI FAN CAS SUPPORT FOULTPMENT	72
R560	REMOVE OR REPLACE AVIONICS CONTROL UNIT (ACU) SRU	70
0467	INSPECT RTC	68
	CLEAN CATHODE RAY TUBES (CRT)	68
N432		68
R567		68
R579		68
R572	REMOVE OR REPLACE OAS MULTIFUNCTION DISPLAY (MFD) SRU	68
N430	INSPECT INCOMING EQUIPMENT	66
R561	REMOVE OR REPLACE CAMERA ELECTRONICS SRU	66
DE62	DEMOVE OD DEDLACE CONTROL DANFLS SPIL	66

TAPLE 23
EQUIPMENT USED BY AFSC 321X0 FIRST ENLISTMENT PERSONNEL

EQUIPMENT	ALL (N=144)	SHOP (N=53)	FLIGHTLINE (N=89)
BREAKOUT BOX	94	92	97
MULTIMETER	94	98	92
OSCILLOSCOPE	94	100	91
ELECTRO-OPT VIEWING SYS (EVS) HANDLING FIXTURE	92	83	98
VOLTMETER, DIGITAL	92	98	90
TORQUE WRENCH	90	96	88
KIT, HELIUM SERVICING	84	89	82
ELECTRO-OPT VIEWING SYS (EVS) TRANSPORTER	74	40	97
TEST SET, BORESIGHT	65	68	65
ANGLE-OF-ATTACK VANE FIXTURE	63	19	90
TEST SET, RADAR	63	70	60
BREAKOUT CABLE ASSEMBLY	60	60	60
OVERHEAD HOIST	60	89	44
ANTENNA ATTITUDE MEASURING SET	57	60	55
ANGLE-OF-ATTACK COMPUTER TESTER	55	28	71
ANALYZER, SPECTRUM	51	77	36
VOLTMETER, ELECTRONIC	48	77	31
ELECTRO-OPT VIEWING SYS (EVS) TEST SET (ASM-470)	47	92	20
CALCULATOR	44	83	22
COMPUTER TERMINAL	42	85	17
GENERATOR, PULSE	42	87	16
TEST POINT ADAPTER	42	62	29
DUMMY FIXTURE	38	25	45
COMPUTER PROCESSOR	36	66	18
METER, POWER	36	75	12
AMMETER	35	42	31
COMPUTER PRINTER	35	89	3
TEST SET, RELAY	35	32	36
GENERATOR, SIGNAL	33	72	10
COMPONENT PRESSURIZING EQUIPMENT	32	57	18
ELECTRONIC COUNTER	31	75	4
GENERATOR, FREQUENCY	30	70	7
VARIABLE POWER SUPPLIES	30	60	12
VOLTMETER, ELECTROSTATIC	30	77	2
ATTENUATOR, VARIABLE	29	68	7

TABLE 23 (CONTINUE	ED)		
EQUIPMENT USED BY AFSC 321X0 FIRST	ENLISTMENT PERSON	MNEL	
EQUIPMENT	ALL (N=144)	SHOP (N=53)	FLIGHTLIN (N=89)
RADAR TEST TRANSMITTER PHOTOMETER KIT, NITROGEN SERVICING DATA BUS MONITOR MILLIOHMETER EST SET, TURRET DRIVE WAVEFORM PROCESSOR SYSTEM (WFA) ATTENUATOR, FIXED GENERATOR, SWEEP TEST PATTERN PROJECTOR METER, STANDING WAVE RATIO (SWR) PROBE, CALIBRATOR PROBE, HIGH VOLTAGE TERMINATION LOAD ANALYZER, SERIAL BUS GENERATOR, PROGRAMMABLE PULSE (PPG) FLASH PROTECTION TESTER PROBE, DIGITAL LOGIC METER, PHASE WAVEFORM SYNTHESIZER DECADE BOX GENERATOR, VIDEO TEST (VTG) MECHANICAL COMPONENT ALIGNMENT TOOL VOLTMETER, VACUUM-TUBE (VTVM) GENERATOR, MARKER KIT, DISC ALIGNMENTS RATIO TRANSFORMER VACCUM GAUGE FIELD TEST UNIT STRAT MISSION DATA PREP SYS (SMDPS) TEST AID SYSTEM ERROR BRIDGE MECHANICAL COMPONENT ALIGNMENT JIG	28 27 24 23 22 22 21 21 20 19 19 19 18 18 17 17 16 14 8 8 8 6 6 6 6 5 3 3 3	26 72 643 49 34 55 55 45 55 45 55 45 57 45 45 45 47 17 17 17 17 17 17 17 17 17 17 17 17 17	29 10 11 8 13 04 8 10 7 3 0 15 11 11 0 2 2 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
43			

Training Emphasis Ratings

Table 24 lists the 25 tasks with highest TE ratings. These tasks illiustrate the type of performance or knowledge considered important for training by senior technicians. These examples also illustrate the various type of data (percent members performing, training emphasis, and task difficulty) which can be used to review training documents. In Table 24, all of the tasks have TE ratings at least one standard deviation above the mean, which indicates these tasks should be considered for training. All but two of these tasks are also performed by fairly high percentages of first-enlistment Several of the tasks also have above average TD ratings, which indicates these are also difficult tasks to learn. These factors, together with percent members performing data, suggest these tasks are appropriate for some form of basic resident technical training. In all, slightly over 147 tasks were rated high in TE (3.19 or above). A few of the tasks rated high in TE have less than 30 percent of the first-term members performing. cality is usually a consideration when assigning a TE value and this is reflected in the high ratings, although the percent members performing is very low. A complete listing of the tasks, in TE order, is provided to the technical training school as part of the Training Extract. The data in these tables should assist career ladder managers in determining the most important tasks for overall training.

Training Documents

Percent members performing tasks, along with TE and TD, were used to assess AFSC 321XO Specialty Training Standard (STS). Survey data were also used to review the basic course at Lowry AFB. Personnel from the school matched inventory tasks to appropriate sections of the STS and the POI. Based on these matchings, computer listings displaying percent members performing, TE and TD ratings were obtained. These computer products are contained in the Training Extract, which is provided for the training managers' review. A new product has been added to the Training Extract. Automated Training Indicators (ATI) give technical school personnel an objective, categorical training decision indicator based on Atch 1, ATCR 52-22.

AFSC 321X0 Specialty Training Standard (STS)

The STS 321X0 (August 1987) covers all aspects of the Bomb-Navigation Systems career ladder. STS paragraphs 1 through 11 and paragraph 22 cover general areas of the career ladder, including operation of test equipment and theory of operation of the major systems. Paragraphs 12 through 18 relate to tasks performed on the flightline and paragraphs 19 through 21 apply to tasks performed in the shop.

To review the current STS, computer products were generated for the total AFSC and for personnel assigned to the flightline and shop. A copy of the computer products is included in the Training Extract. Information in the printout for the total AFSC includes ATI, TE, TD, and percent members performing for first-job, first-enlistment, and 5- and 7-skill level personnel.

	*			X		× 000		8 ●
SHSHSHS		TABLE 24 EXAMPLES OF TASKS RATED HIGH IN TRAINING EMPHASIS	SIS					
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		(PEKCENI FIKSI ENLISIMENI	TNG	TST	TASK	1ST	1ST	
	TASKS	MAKE ENTDIES ON AFTO FORMS	EMP*	됩 8	3.55	<u>ال</u>	87 Kg	
	E 138 E 140	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) MAKE ENTRIES ON AIRCRAFT FLIGHT OR MAINTENANCE RECORD FORMS, SUCH	6.49	80	• •	80	87	
	H247	AS AFIU FURMS /81 SEKIES SOLDER TERMINALS OR WIRES DESERADOU ATDODAET TECHNICAL ORDER (TO) SCHEMATICS, SUCH AS CIRCUIT	4.81	3 6	3.76	65	86	
58.455X	1256		4.78	56 42	6.13	87	o ∾	
	H246 H239	FORWARD LOOKING IN NUCLEAR HARDENED	4.73	83 76	3.63 4.45	88 88	85 58	
15 500000		COAXIAL (ASQ-176	4.65 4.54	75 54	4.83 3.62	83 83	88 o c	
Periodi Periodi	1255 K328	CLUSE AIRCRAFI RADUMES OR REPLACE ASQ-151 EVS STV CAMERA ASSEMBLIES	4.46	57	5.23	78 88	n (o <	
	1300 K323	REMOVE OR REPLACE AIRCRAFI KEINSIRUMENIED IERKAIN REMOVE OR REPLACE ASQ-151 EVS FLIR SCANNER ASSEMBL BEDATE CABLES OTHED THAN MICLEAD LADDENED CABLES	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	23 24	5.32	90	φ γ • • • • • • • • • • • • • • • • • • •	
	H242 L371		4.4 38 72 72	54.	3.89 8.89 8.89	386	4 ¢	
	U85 K329 W240	DEMONSINALE NOW TO LOCATE TECHNICAL REMOVE OR REPLACE ASQ-151 EVS STV CA INCDECT OR SERVICE DESICEANTS	4.35	22 68	4.27 2.74	83.7	ဥ္ကမ	
XXXX	1260		4.32	50 20 20 20 20 20 20 20 20 20 20 20 20 20	2.56	8 83) प प	
65050	K318 K318	PERFORM OPERATIONAL CHECKS	4.32	57	4.55 68 68	88	- o ⊂	
ዕ ርፅፍ	J297 J297 1267	PERFORM TA FILDI FUSILION PERFORM TA SYSTEM RETURN T	4.30	25 26 26	3.95 3.92	49 1	000	- "
<u> </u>	*	raining Emphasis average is 1.88, with an SD of 1.31						
12020	⊢ *	s 5.0, with an SD of 1.0						
962 546								
								7.7

Percent members performing for first-enlistment and 5- and 7-skill level personnel are presented separately for flightline and shop airmen. Separate ATIs were computed for flightline and shop groups. The TE and TD data are based on the total sample.

To review the STS, it was necessary to consider the basic division in the career ladder. Based on percent members performing for either flightline or shop personnel, the majority of the STS is supported. There were only two major sections with matched inventory items which were not supported by survey data: the Strategic Radar System and the Strategic Mission Data Preparation System (SMDPS). As these systems become fully operational, obviously these low percentages will change. The STRAT Radar System is being phased in within the career ladder and is scheduled to be fully implemented in the 1990-91 time-frame. The SMDPS has required low maintenance and, again, not many career ladder members have had an opportunity to obtain experience on this system.

Table 25 presents examples of tasks which were not referenced to the STS. Career ladder personnel should review these tasks to determine if they are covered within the STS, and if not, whether they should be included.

POI 3ABR321X0

The Plan of Instruction (POI) scheduled to be effective in May 1988 was matched with survey data. A computer printout which displays the tasks referenced to areas in the POI was generated. This printout displays the TE ratings, ATI for all first-enlistment personnel, percent members performing for those on their first job (1-24 months TAFMS) and first enlistment (1-48 months), and TD ratings. Since the career ladder is divided into Flightline and Shop Personnel, information is also shown for these groups.

Basically, the training document is supported by survey data. The section on STRAT Radar had very low percentages performing these tasks and low task factor data. This is a new system which was only being used at two or three bases when the survey was administered.

Table 26 lists examples of tasks not referenced to the POI. Many of these tasks are performed by Shop Personnel and may be covered in 5-level courses. Instructors should review the tasks which are technical to determine if they need to be included in the course instruction and the next revised POI.

The basic course is 24 weeks, 2 days in length; however, the EPI portion is 68 out of the 122 days. The training is directed primarily toward flightline tasks. In the past, personnel were initially assigned to the flightline, then after obtaining experience on the flightline, they were sent to 5-level courses to obtain skills needed to perform in the shop. Apparently, more

TABLE 25

EXAMPLES OF TASKS UNREFERENCED TO THE 321XO SPECIALTY TRAINING STANDARD

	-		TOTAL	SAMPLE	ш		FLI	FL IGHTL INE	밀	İ	SHOP	j
	ZNL		15.	rç I	7-	TASK	דאַנ	ı,	7-	151	يا	,
	2		5	,		5	2)		2	,	
TASKS	릷	ATI	EN	킴	킴	DIFF	R	17	킴	EN	시	1/1
E140 MAKE ENTRIES ON AIRCRAFT FLIGHT OR MAINTENANCE												
RECORD FORMS, SUCH AS AFTO FORMS 781 SERIES	5.16	21	46	47	48	3.49	64	72	80	17	82	56
	4.8]	38	73	80	52	3.76	57	78	28	86	92	87
		72	42	46	32	5.01	29	79	99	2	ဖ	رین ا
H243 REPAIR COAXIAL OR CRIMPED CONNECTIONS	4	8	75	83	29	4.89	99	98	89	83	83	84
K329 REMOVE OR REPLACE ASQ-151 EVS STV CAMERA ELECTRONICS	4.	<u>∞</u>	22	49	34	4.27	88	88	69	9	4	ς,
REMOVE OR REPLACE ASQ-151 EVS FLIR SIGNAL	4	<u>8</u>	59	20	34	4.33	6	90	69	9	4	က
J305 REMOVE OR REPLACE TA RADAR SCAN CONVERTERS H744 REPAIR NICLEAR HARDENED CONNECTORS OF MILL TIDIA	4.19	12	49	45	30	•	75	80	62	9	9	(r)
CONNECTORS	4	۵	53	26	43	87.9	ΑF	79	F.9	7	נש	63
1336 ISOLATE MALFUNCTIONS WITHIN ASO-176 DAS SUBSYSTEMS	•	2	7	3	?		?	5	75	5	5	3
USING FLIGHT CONTROL PROGRAMS (FCP)	3.84	15	42	48	34	5.71	64	80	89	4	m	(17
J272 ISOLATE MALFUNCTIONS WITHIN TERRAIN AVOIDANCE (TA)			!	İ				•)	•)	,
SYSTEMS	3.76	15	46	46	31	•	71	79	63	4	4	က
	3.65	2	38	53	4ا	2.73	20	31	3]	89	82	9/
REPAIR AIRCRAFT WIRING	3.57	22	42	45	53	5.87	64	8	6 2	4	9	ن
H241 ISOLATE MALFUNCTIONS WITHIN CATEGORY II TEST												
EQUIPMENT WAZR I DAN OPEDATING SYSTEM SOFTWARE INTO ASM-641 INS	3.19	7	20	37	34	6.51	90	28	8	56	51	99
TEST SET TO CLOS TECHNICAL COOPER CONTRACT	2.95	7	91	24	19	5.37	0	_	ო	43	64	85
SUCH AS CIRCUIT OR WIRING DIAGRAMS	2.92	15	3]	34	30	6.16	_	0	က	83	88	13
P480 ISOLATE MALFUNCTIONS WITHIN ASQ-176 OAS RADAR Antennas Iistng asm-653 sat	ر ا	7	2	23	71	F 43	c	c	c	33	[4	[]
EVS)		•	7	3	:		>	>	>	76	- 5	- 5
PRESENTATION GROUPS (DPG) USING ASM-4 DEDECOM CONTINUITY CHECKS OF INDIVIDUR	2.81	7	11	24	22	5.93	0	0	0	45	9	9/
CIRCUIT COMPONENTS	2.43	7	53	33	27	5.10	7	0	2	75	82	28

TABLE 26

EXAMPLES OF TASKS UNREFERENCED TO AFSC 321X0 PLAN OF INSTRUCTION

			PCT	_		PCT	·	PCT	
TASKS	TNG	ATI* ALL	1ST JOB	1ST ENL	TASK	1ST ENL FLT	ATI FLT	1ST ENL SHOP	ATI SHOP
E140 MAKE ENTRIES ON AIRCRAFT FLIGHT OR MAINTENANCE RECORD									
FORMS, SUCH AS AFTO FORMS 781 SERIES	5.16	12	48	46	3.49	64	38	17	Ξ
1269 RESEARCH AIRCRAFT TECHNICAL ORDER (TO) SCHEMATICS, SUCH									
AS CIRCUIT OR WIRING DIAGRAMS	4.78	<u>&</u>	22	26	6.13	83	38	თ	Ξ
1256 PERFORM COMPONENT REPLACEMENT CHECKS	4.76	15	44	42	5.01	29	92	2	Ξ
J300 REMOVE UK KEPLACE AIRCKAF! KEINSIKUMENIED TERRAIN	,								
	4.43	ဆ	28	54	4.55	82	<u>&</u>	4	=
K329 REMOVE OR REPLACE ASQ-151 EVS STV CAMERA ELECTRONICS	4.35	<u></u>	29	27	4.27	88	<u>8</u>	ψ	=
7639									
MODULATORS (RTM)	4.32	<u>&</u>	و]	26	4.69	88	38	4	=
I267 REMOVE OR REPLACE AIRCRAFT OAS LINE REPLACEABLE UNITS									
(LRU)	4.27	8	62	29	3.92	6	38	c	=
1298 REMOVE OR REPLACE AIRCRAFT ANTENNAS	4 27	2	2	40	00	78	α	0	=
L336 ISOLATE MALFUNCTIONS WITHIN ASO-176 DAS SUBSYSTEMS			3	}	3	2	2	7	<u>-</u>
USING FLIGHT CONTROL PROGRAMS (FCP)	3.84]2	42	42	5.71	64	8	4	
J284 PERFORM TA AOA SYSTEM ADJUSTMENTS	3.30	12	33	35	6.22	22	8	0	
046 ALIGN REINSTRUMENTED TERRAIN COMPUTERS (RTC)	3.11	7	24	56	6.56	C	7	77	17
		•	1)		•			:
ASM-653 SAT	3.11	/	13	14	6.02	0	7	38	35
P519 PERFORM RTM ALIGNMENTS USING ASM-653 SAT	3.11	_	9	12	7.97	0	7	47	2
P518 PERFORM RTM ABBREVIATED FUNCTIONAL TESTS USING ASM-653						ı	,	•	•
SAT	3.08	7	12	2	6.75	0	7	22	17
	3.03	7	14	15	7.76	0	7	42	<u>ت</u>
0467 INSPECT RTC	3.00	7	24	25	5.71	0	7	89	17
K307 ADJUST ASQ-151 ELECTRO-OPTICAL VIEWING SYSTEM (EVS)	2.95	7	17	50	5.40	30	15	2	7

^{*} ATI is a categorical training decision indicator based on ATCH 1, ATCR 52-22

first-term personnel are now going directly to the shop, although the flight-line personnel are still the dominant portion of the career ladder. At present, the course is appropriate for most AFSC 321XO personnel; however, assignment policies may need to be considered since very few shop members are performing tasks matched to the POI.

JOB SATISFACTION

Table 27 presents data showing job interest, perceived utilization of talents and training, and reenlistment intention of Bomb-Navigation Systems TAFMS groups, as well as a comparative sample of Mission Equipment Maintenance personnel surveyed in 1987. In looking at the job satisfaction indicators by time in the service, it is interesting to note that job interest shows a steady decrease, from 81 percent expressing positive job interest among first-enlistment personnel to 69 percent for those in career status. This same flow is shown for perceived utilization of talents and training. These trends represent a reversal in the normal pattern of job satisfaction factors.

Otherwise, Bomb-Navigation Systems personnel in general show similar attitudes to the comparative sample. Job interest and utilization of talents and training are somewhat higher for the first- and second-enlistment AFSC 321XO personnel. This pattern is reversed for those in career status who perceive their job as less interesting than those in the comparative sample. Although they express positive attitudes toward their job, fewer first- and second-term Bomb-Navigation Systems personnel indicate they will reenlist than those in the comparative sample. Reenlistment patterns for those in career status are comparable.

Table 28 summarizes the job satisfaction indicators by skill level for the total sample and for those assigned to shop or flightline areas. Overall, the expressed job interest and perceived utilization of talents and training is high for each skill level. However, when this information is separated by functional area, differences in job factors are found. Flightline Personnel express consistently lower job interest and perceived utilization of talents. Utilization of training is lower for 7-skill level Flightline Personnel. The same percentages of shop and flightline 3-skill personnel indicate they plan to reenlist. Greater differences in potential retention are found within the 5- and 7-skill level personnel, where less than 60 percent of the specialists indicate they will reenlist.

Job satisfaction was also examined for jobs identified within the career ladder (see Table 29). The lowest job interest, as would be expected, is found within the Flightline Production job. Although they represent a very small group (5), personnel in Flightline Production indicate less use of talents and training. Plans to reenlist vary from 57 percent to 83 percent.

		TABLE 27					
	JB SATISF		INDICATORS BY RESPONDING)*	Y TAFMS	GROUPS		
		1-48	MOS TAFMS	49-96 M	MOS TAFMS	97+ M0S	S TAFMS
		321X0 (N=144)	COMP SAMPLE** (N=2, 187)	321X0 (N=162)	COMP SAMPLE** (N=974)	321X0 (N=160)	COMP SAMPLE** (N=1.613)
EXP	RESSED JOB INTEREST:						
HŴŌ	NTERESTING 3-S0 JLL	81 12 5	72 17 11	75 12 12	73 14 12	69 81 12	78 14 8
PER	SEIVED UTILIZATION OF TALENTS:						
استا	AIRLY WELL TO PERFECTLY ITTLE OR NOT AT ALL	84 15	78 22	78 22	77	78	82
PER	CEIVED UTILIZATION OF TRAINING:						
L	AIRLY WELL TO PERFECTLY ITTLE OR NOT AT ALL	91	83 17	83 17	81 19	79	80
REE	ALISTMENT INTENTIONS:						ı
> \(\)	ES, OR PROBABLY YES), OR PROBABLY NO .AN TO RETIRE	54 1	57 43	39 -	67 31	73 11 15	73 10 16
* *	* Columns may not add up to 100 percent due to rounding - Indicates less than 1 percent ** Comparative sample includes personnel from Mission Equipment AFSCs include 303X2, 303X3, 304X6, 321X1, 427X0, 427X2, and	nding on Equip 427X2,	ment Maintenance and 427X3		surveyed in]	1987	

TABLE 28

COMPARISON OF JOB SATISFACTION INDICATORS BY DAFSC AND FUNCTIONAL GROUPS (PERCENT MEMBERS RESPONDING)*

	(,,	3-SKILL	3-SKILL LEVEL		5-SKIL	5-SKILL LEVEL		7-SKI	7-SKILL LEVEL
	뒘	왕	FL IGHTL INE	AL	SHOP	FL IGHTL INE	ALL	SHOP	FL IGHTL INE
EXPRESSED JOB INTEREST:									
INTERESTING SO-SO DULL	81 12 6	88 10 2	77 13 9	47 11	300	65 17 17	76 16 12	13	64 12 23
PERCEIVED UTILIZATION OF TALENTS:									
FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	19	86 14	79 21	78	92 8	71 29	19	95	74 26
PERCEIVED UTILIZATION OF TRAINING:									
FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	87 12	90	84 14	84 15	92	85 15	19	001	74 26
REENLISTMENT INTENTIONS:									
YES, OR PROBABLY YES NO, OR PROBABLY NO PLAN TO RETIRE	57 42 -	57 43	57 -	59 1	64 36	55 7	71 13 15	33	66 15 17

^{*} Columns may not add up to 100 percent due to rounding - Indicates less than I percent

TABLE 29

COMPARISON OF JOB SATISFACTION INDICATORS BY CAREER LADDER STRUCTURE GROUPS (PERCENT MEMBERS RESPONDING)*

	FLTL PERS (N=232)	QA PERS (N=6)	SUPVRY PERS (N=36)	SUP PERS (N=7)	SHOP PERS (N=141)	FTL PRODUCTION PERSONNEL (N=5)
EXPRESSED JOB INTEREST:						
INTERESTING SO-SO DULL	67 16 16	83 17 -	78 17 5	71 29 -	87 10 2	80 - 20
PERCEIVED UTILIZATION OF TALENTS:						
FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	75 25	100	86 14	71 29	91 8	60 40
PERCEIVED UTILIZATION OF TRAINING:						
FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL	81 19	100	78 22	86 14	94 5	60 40
REENLISTMENT INTENTIONS:						
YES, OR PROBABLY YES NO, OR PROBABLY NO PLAN TO RETIRE	59 37 3	83 - 17	64 11 25	57 29 -	67 31 1	60 - 40

 $[\]star$ Columns may not add up to 100 percent due to rounding - Indicates less than 1 percent

Two small jobs have lower percent members planning to reenlist (Supply and Flightline Production personnel). Both of these groups represent specialized jobs. Fifty-nine percent of the Flightline Personnel job group indicate they plan to reenlist, compared with 67 percent of the Shop Personnel. One-fourth of the Supervisory Personnel plan to retire.

Job satisfaction data were compared between the previous survey respondents and the current sample (see Table 30). Job satisfaction factors are presented, by shred, for the 1977 sample. These groups were presented for those in their first enlistment or beyond. As shown, job satisfaction factors are consistently higher for the current sample than those surveyed in 1977. Perceived use of talents and training, as well as job interest, have increased considerably for the first-term personnel. Reerlistment potential is shown for these groups in Table 31 by first-enlistment, second-enlistment, and career TAFMS groups. For the first-enlistment personnel, the percent members who plan to reenlist is much higher than the 1977 group. Patterns are fairly close for those in their second enlistment. In 1977, there was a fairly large difference between K- and L-shred career potential. The percent assigned the K-shred and those currently in career status showed a similar pattern.

IMPLICATIONS

Clear distinctions were found between flightline and shop maintenance positions. This separation of positions reflects the job structure established under SAC's ROLS plan. Under ROLS, personnel are assigned to the Organizational Maintenance Squadron (OMS), which is responsible for flightline maintenance, or to an Avionics Maintenance Squadron (AMS) for Bomb-Navigation Systems shop maintenance. This separation is also outlined in the STS in that separate sections of this document cover flightline and shop responsibilities. Training for the career ladder is directed toward flightline tasks. The current data shows that personnel may be assigned to either area or may begin on the flightline and then be transferred to a shop. Since the largest number of personnel are working on the flightline, the course is appropriate for most AFSC 321X0 personnel.

In the past, the career ladder had a fairly high attrition rate. The present survey sample shows a considerable increase for first-term personnel planning to reenlist. Currently, there are differences in job satisfaction indicators between flightline and shop personnel, particularly among the 5-and 7-skill level members. Flightline personnel show lower job interest and use of talents and training, as well as reenlistment potential.

The career ladder has undergone major changes in both equipment and structure. Changes in equipment are still being implemented. The training documents have taken into account the new systems and training is being implemented. Career ladder managers should take a careful look at these issues to determine long-term effects based on assignment policy, advanced training capability, and performance testing.

TABLE 30

COMPARISON OF JOB SATISFACTION INDICATORS FOR PREVIOUS
AND CURRENT SURVEY DATA
(PERCENT MEMBERS RESPONDING)*

	1-4	8 MOS TA	FMS	49	+ MOS TAF	MS
	1977	1977	1988	1977	1977	1988
	321XOK	321XOL	321X0	321XOK	321XOL	321X0
	(N=219)	(N=28)	(N=144)	(N=300)	(N=117)	(N=322)
EXPRESSED JOB INTEREST:						
INTERESTING	65	46	81	74	71	72
SO-SO	17	29	12	15	12	15
DULL	15	21	5	6	8	12
PERCEIVED UTILIZATION OF TALENTS:						
FAIRLY WELL TO PERFECTLY	66	61	84	79	85	78
LITTLE OR NOT AT ALL	32	39	15	20	15	22
PERCEIVED UTILIZATION OF TRAINING:						
FAIRLY WELL TO PERFECTLY	75	64	91	77	81	81
LITTLE OR NOT AT ALL	24	36	9	19	16	19

^{*} Columns may not add up to 100 percent due to rounding or no response

TABLE 31

COMPARISON OF JOB SATISFACTION INDICATORS FOR PREVIOUS AND CURRENT SURVEY DATA (PERCENT MEMBERS RESPONDING)*

	1-4	8 MOS TA	FAS	49-9	6 MOS TA	FMS	- 624	MOS TAF	MS
	1977	1977	1988	1977	1977	1988	1977	1977	1988
	321X0K	321X0K 321X0L 321X0	321X0	321X0K 321X0L 321X0	321X0L	32 1X0	32 1X0K	321X0K 321X0L 321X0	321X0
REENLISTMENT INTENTIONS:									
YES, OR PROBABLY YES	59	28	54	51	22	29	70	29	73
NO, OR PROBABLY NO	89	89	46	47	35	39	27	39	=

^{*} Columns may not add up to 100 percent due to rounding or no response

APPENDIX A

GROUP ID NUMBER AND TITLE: STAGE 40, FLIGHTLINE PERSONNEL GROUP SIZE: 232 PERCENT OF SAMPLE: 50% AVERAGE GRADE: E3-E5 AVERAGE TICF: 50 MONTHS GROUP SIZE: 232 AVERAGE GRADE: E3-E5 AVERAGE TAFMS: 74 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
K323	REMOVE OR REPLACE ASQ-151 EVS FLIR SCANNER ASSEMBLIES CLEAN ASQ-151 EVS TURRET WINDOWS	95
K309	CLEAN ASQ-151 EVS TURRET WINDOWS	95
K318	PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS FLIR SYSTEMS	94
K320	PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS FLIR SYSTEMS PERFORM OPERATIONAL CHECKS OF ASQ-151 EVS STV SYSTEMS	94
I267	OPEN OR CLOSE AIRCRAFT RADOMES REMOVE OR REPLACE AIRCRAFT OAS LINE REPLACEABLE UNITS (LRU) REMOVE OR REPLACE ASQ-151 EVS STV CAMERA ASSEMBLIES	93
	PERFORM ASQ-176 OAS GMCP LOADINGS	93
1269		
	CIRCUIT OR WIRING DIAGRAMS	92
L345	PERFORM ASN-136 INS SHUTDOWNS	92
H239	INSPECT NUCLEAR HARDENED CABLES OR CONNECTORS	92
L364	PERFORM ASQ-176 OAS CONTROLS AND DISPLAYS SHUTDOWNS	91
K313	PERFORM ASN-136 INS SHUTDOWNS INSPECT NUCLEAR HARDENED CABLES OR CONNECTORS PERFORM ASQ-176 OAS CONTROLS AND DISPLAYS SHUTDOWNS ISOLATE MALFUNCTIONS WITHIN ASQ-151 EVS FORWARD LOOKING	
	INFRARED (FLIR) SYSTEMS	91
K324	REMOVE OR REPLACE ASQ-151 EVS FLIR SIGNAL PROCESSORS	91
K314	ISOLATE MALFUNCTIONS WITHIN ASQ-151 EVS STEERABLE TELEVISION	
	(STV) SYSTEMS	91
L341		
	(INC)	90
L371	PERFORM ASQ-176 OAS GROUND COOLING AND SYSTEM POWER APPLICATIONS PERFORM ASO-151 EVS SYMBOL CHECKS	
	APPLICATIONS	90
K316	PERFORM ASQ-151 EVS SYMBOL CHECKS	90
L343	PERFORM ASV-131 EVS SYMBOL CHECKS PERFORM ASN-136 INITIALIZATION AND INERTIAL MEASUREMENT	
	CONTINUENT (TMC)/CMCD CUECVONTS	89
K329	REMOVE OR REPLACE ASQ-151 EVS STV CAMERA ELECTRONICS	8 9
J299	REMOVE OR REPLACE ASQ-151 EVS STV CAMERA ELECTRONICS REMOVE OR REPLACE AIRCRAFT RECEIVER-TRANSMITTER	
K333	REMOVE OR REPLACE ASQ-151 EVS TURRET WINDOWS	89
L391	PERFORM ASQ-176 OAS SYSTEM AND COOLING SHUTDOWNS	88
L363	REMOVE OR REPLACE ASQ-151 EVS TURRET WINDOWS PERFORM ASQ-176 OAS SYSTEM AND COOLING SHUTDOWNS PERFORM ASQ-176 OAS CONTROLS AND DISPLAYS POWER APPLICATION	
	AND TIDN AN DDACENIDES	00
L383	PERFORM ASQ-176 OAS PREOPERATIONAL CONTROL SETTINGS	88
L362	PERFORM ASQ-176 OAS PREOPERATIONAL CONTROL SETTINGS PERFORM ASQ-176 OAS COMPUTATIONAL SYSTEM SHUTDOWNS	88
HZ46	SERVICE FURWARD LOURING INFRARED (FLIR) SCANNER MELIUM	80
L361	PERFORM ASQ-176 OAS COMPUTATIONAL SYSTEM INITIALIZATIONS	88
L375	PERFORM ASO-176 OAS NAVIGATOR AREA PHYSICAL INSPECTIONS	88

GROUP ID NUMBER AND TITLE: STAGE 112, QUALTY ASSURANCE PERSONNEL GROUP SIZE: 6
AVERAGE GRADE: E5, E6
AVERAGE TAFMS: 146 MONTHS PERCENT OF SAMPLE: 1% AVERAGE TICF: 134 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
C71	INSPECT SUPPORT EQUIPMENT OR SPECIAL TOOLS	100
C69	INSPECT IN-SHOP MAINTENANCE ACTIONS	100
C60	EVALUATE QUALITY CONTROL PROCEDURES	100
H239	INSPECT NUCLEAR HARDENED CABLES OR CONNECTORS	100
U646	INSPECT ASM-470 EVS TEST SETS	100
W675	INSPECT ASM-641 INS TEST SETS	100
0467	INSPECT RTC	100
0465	INSPECT ASM-46B COMPUTER TEST SETS	100
0466	INSPECT NRTC ALIGNMENT UNITS	100
E137	MAKE ENTRIES ON AFTO FORMS 349	100
C62	EVALUATE TO IMPROVEMENT REPORTS	100
A3		83
S593	INSPECT ASM-479AX ELECTRO-OPTICAL VIEWING SYSTEM (EVS)/	
	OFFENSIVE AVIONICS SYSTEM (OAS) TEST SETS	83
E142	MAKE ENTRIES ON RECORDS OF EVALUATIONS	83
F173	EVALUATE SERVICEABILITY OF EQUIPMENT	83
V665	INSPECT ASM-681 TRANSMITTER MODULATOR ASSEMBLY TEST SETS	
	(TMATS)	83
	EVALUATE PERSONNEL FOR NEED OF TRAINING	83
	EVALUATE PROGRESS OF TRAINEES	83
D85	DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION	83
E133	MAKE ENTRIES ON AF FORMS 2420 (QUALITY CONTROL INSPECTION	
	SUMMARY)	83
H240		83
	INSPECT RADIO FREQUENCY (RF) ABSORBER PANELS	83
C59	EVALUATE PERSONNEL FOR COMPLIANCE WITH TECHNICAL ORDERS	
	(TO)	67
B38	IMPLEMENT QUALITY CONTROL PROCEDURES	67
C 67	INSPECT AIRCRAFT MAINTENANCE ACTIONS	67
D91	EVALUATE EFFECTIVENESS OF TRAINING PROGRAMS	67
C68	INSPECT CONDITION AND APPEARANCE OF FACILITIES	67
	RESEARCH TO INDEXES	67
D81	CONDUCT OJT	67
C56	EVALUATE INSPECTION REPORT FINDINGS	67

GROUP ID NUMBER AND TITLE: STAGE 26, SUPERVISORY PERSONNEL

GROUP SIZE: 36 PERCENT OF SAMPLE: 8% AVERAGE GRADE: E6, E7 AVERAGE TICF: 148 MONTHS

AVERAGE TAFMS: 191 MONTHS

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TASKS		PERCENT MEMBERS PERFORMING
C70	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS	
C74	WRITE APR	97
A3	COMPILE DATA FOR REPORTS	97
B29	COUNSEL SUBORDINATES, SUCH AS ON JOB PROGRESSION, MILITARY-	
	RELATED MATTERS, AND PERSONAL MATTERS	92
C75	WRITE RECOMMENDATIONS FOR AWARDS AND DECORATIONS	92
A14	ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES	81
A7	DETERMINE WORK PRIORITIES	78
D95	EVALUATE PROGRESS OF TRAINEES	78
E141	MAKE ENTRIES ON CABINET, SAFE, OR ROOM SECURITY FORMS	78
B44	INTERPRET DIRECTIVES FOR SUBORDINATES	75
A21	SCHEDULE LEAVES	75
D100	MAKE ENTRIES IN OJT RECURDS	75
Αl	ASSIGN PERSONNEL TO DUTY POSITIONS	72
A23	SCHEDULE WORK PRIORITIES	72
D99	MAINTAIN TRAINING RECORDS	72
B28	COUNSEL SUBORDINATES, SUCH AS ON JOB PROGRESSION, MILITARY- RELATED MATTERS, AND PERSONAL MATTERS WRITE RECOMMENDATIONS FOR AWARDS AND DECORATIONS ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES DETERMINE WORK PRIORITIES EVALUATE PROGRESS OF TRAINEES MAKE ENTRIES ON CABINET, SAFE, OR ROOM SECURITY FORMS INTERPRET DIRECTIVES FOR SUBORDINATES SCHEDULE LEAVES MAKE ENTRIES IN OJT RECORDS ASSIGN PERSONNEL TO DUTY POSITIONS SCHEDULE WORK PRIORITIES MAINTAIN TRAINING RECORDS CONDUCT SUPERVISORY ORIENTATIONS OF NEWLY ASSIGNED PERSONNEL PLAN OR SCHEDULE WORK ASSIGNMENTS CONDUCT OJT IMPLEMENT SELF-INSPECTION PROGRAMS DEVELOP SELF-INSPECTION PROGRAMS COUNSEL TRAINEES ON TRAINING PROGRESS EVALUATE PERSONNEL FOR NEED OF TRAINING INDORSE AIRMAN PERFORMANCE REPORTS (APR) INSPECT SUPPORT EQUIPMENT OR SPECIAL TOOLS DETERMINE LOGISTICS REQUIREMENTS, SUCH AS EQUIPMENT, PERSONNEL, AND SPACE ANALYZE WORKLOAD REQUIREMENTS COORDINATE MAINTENANCE OF EQUIPMENT WITH APPROPRIATE AGENCIES DIRECT DEVELOPMENT OF STATUS BOARDS, CHARTS, OR GRAPHS	
	PERSONNEL	72
A 19	PLAN OR SCHEDULE WORK ASSIGNMENTS	69
D81	CONDUCT OJT	69
B41	IMPLEMENT SELF-INSPECTION PROGRAMS	67
All	DEVELOP SELF-INSPECTION PROGRAMS	67
D84	COUNSEL TRAINEES ON TRAINING PROGRESS	67
D94	EVALUATE PERSONNEL FOR NEED OF TRAINING	67
C66	INDORSE AIRMAN PERFORMANCE REPORTS (APR)	64
C71	INSPECT SUPPORT EQUIPMENT OR SPECIAL TOOLS	64
A5	DETERMINE LOGISTICS REQUIREMENTS, SUCH AS EQUIPMENT,	
	PERSONNEL, AND SPACE	64
C51	ANALYZE WORKLOAD REQUIREMENTS	64
A4	COORDINATE MAINTENANCE OF EQUIPMENT WITH APPROPRIATE	
	AGENCIES	64
B30	DIRECT DEVELOPMENT OF STATUS BOARDS, CHARTS, OR GRAPHS EDIT AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD) MAINTAIN CORRESPONDENCE FILES	64
E 120	EDIT AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)	6]
	MAINTAIN CORRESPONDENCE FILES	61
	PLAN TRAINING	61
	PLAN TRAINING EVALUATE TRAINING METHODS AND TECHNIQUES INVENTORY EQUIPMENT OR TOOLS	61
F174	INVENTORY EQUIPMENT OR TOOLS	61
660	INCRECT CONDITION AND ADDEADANCE OF FACILITIES	58

GROUP ID NUMBER AND TITLE: STAGE 49, SUPPLY PERSONNEL

GROUP SIZE: 7

AVERAGE GRADE: E3, E4

PERCENT OF SAMPLE: 2%

AVERAGE TICF: 31 MONTHS

AVERAGE TAFMS: 51 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
C71	INSPECT SUPPORT EQUIPMENT OR SPECIAL TOOLS ISSUE EQUIPMENT OR SUPPLIES EVALUATE SERVICEABILITY OF EQUIPMENT REPAIR CABLES, OTHER THAN NUCLEAR HARDENED CABLES REPAIR COAXIAL OR CRIMPED CONNECTIONS INVENTORY EQUIPMENT OR TOOLS	100
	ISSUE EQUIPMENT OR SUPPLIES	100
	EVALUATE SERVICEABILITY OF EQUIPMENT	100
H242	REPAIR CARLES. OTHER THAN NUCLEAR HARDENED CARLES	100
H243	REPAIR COAXIAL OR CRIMPED CONNECTIONS	100
	INVENTORY EQUIPMENT OR TOOLS	86
	MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING	
2100	TAG)	86
F164	ANNOTATE AND ATTACH EQUIPMENT STATUS LABELS OR TAGS TO	
	EQUIPMENT	86
F202	RESEARCH MICROFICHE FILES OR TECHNICAL ORDERS FOR SUPPLY	
	DECULETTION DATA	86
F178	MAINTAIN CONSOLIDATED TOOL KITS (CTK)	71
H247	SOLDER TERMINALS OR WIRES	71
B33	DIRECT MAINTENANCE OF EQUIPMENT	71
F191	MAINTAIN CONSOLIDATED TOOL KITS (CTK) SOLDER TERMINALS OR WIRES DIRECT MAINTENANCE OF EQUIPMENT MAKE ENTRIES ON AF FORMS 2413 (SUPPLY CONTROL LOG) MAINTAIN ORGANIZATIONAL EQUIPMENT AND SUPPLY RECORDS MAKE ENTRIES ON AFTO FORMS 349	71
F180	MAINTAIN ORGANIZATIONAL EQUIPMENT AND SUPPLY RECORDS	57
E137	MAKE ENTRIES ON AFTO FORMS 349	57
F190	MAKE ENTRIES ON AF FORMS 2005 (ISSUE/TURN IN REQUEST)	57
C70	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS	57
F203		
	PARTS (AWP) EQUIPMENT	57
F 197		
	REQUISITION SYSTEM DOCUMENT)	57
F183	MAINTAIN WORK ORDER RESIDUE	57
A4	COORDINATE MAINTENANCE OF EQUIPMENT WITH APPROPRIATE	
	AGENCIES	57
E 136	MAKE ENTRIES ON AFTO FORMS 244 AND 245 (INDUSTRIAL/SUPPORT	
	EQUIPMENT RECORD AND CONTINUATION SHEET)	43
G212	INVENTORY CONSOLIDATED TOOL KITS (CTK)	43
	LOG EQUIPMENT TURN-INS	43
F 182	MAINTAIN SUPPORT EQUIPMENT DAILY STATUS RECORDS	43
F196	MAKE ENTRIES ON DD FORMS 1348-1 (DOD SINGLE LINE ITEM	
	RELEASE/RECEIPT DOCUMENT)	43

GROUP ID NUMBER AND TITLE: STAGE 45, SHOP PERSONNEL

GROUP SIZE: 141 PERCENT OF SAMPLE: 30% AVERAGE GRADE: E3-E5 AVERAGE TICF: 53 MONTHS

AVERAGE TAFMS: 66 MONTHS

TASKS		PERCENT MEMBERS PERFORMING
N435	PACK OR UNPACK ELECTROSTATIC SENSITIVE DEVICES (ESD) PACK OR UNPACK OAS LRU SOLDER TERMINALS OR WIRES ASSEMBLE OR DISASSEMBLE OFFENSIVE AVIONICS SYSTEM (OAS) LINE REPLACEABLE UNITS (LRU) OR LRU SUBASSEMBLIES REMOVE OR REPLACE PRINTED CIRCUIT BOARDS RESEARCH ILLUSTRATED PARTS BREAKDOWN (IPB) FOR OAS FIELD SHOP MAINTENANCE	99
N436	PACK OR UNPACK OAS LRU	98
H247	SOLDER TERMINALS OR WIRES	97
N421	ASSEMBLE OR DISASSEMBLE OFFENSIVE AVIONICS SYSTEM (OAS)	
	LINE REPLACEABLE UNITS (LRU) OR LRU SUBASSEMBLIES	96
N452	REMOVE OR REPLACE PRINTED CIRCUIT BOARDS	96
N456	RESEARCH ILLUSTRATED PARTS BREAKDOWN (IPB) FOR OAS FIELD	
	SHOP MAINTENANCE	96
N425	CLEAN DUST FILTERS	95
N455	CLEAN DUST FILTERS RESEARCH FIELD SHOP TECHNICAL ORDER SCHEMATICS, SUCH AS CIRCUIT OR WIRING DIAGRAMS	0.4
	CIRCUIT OR WIRING DIAGRAMS	94
N426	CLEAN DAS LRU DR LRU SUBASSEMBLIES	94
H246	SERVICE FORWARD LOUKING INFRARED (FLIR) SCANNER HELIUM	94
E 138	CIRCUIT OR WIRING DIAGRAMS CLEAN OAS LRU OR LRU SUBASSEMBLIES SERVICE FORWARD LOOKING INFRARED (FLIR) SCANNER HELIUM MAKE ENTRIES ON AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG) PACK OR UNPACK OAS MODULES OR SUBASSEMBLIES REPAIR COAXIAL OR CRIMPED CONNECTIONS MAKE ENTRIES ON AFTO FORMS 349 REMOVE OR REPLACE DESICCANTS DURING FIELD SHOP MAINTENANCE	03
N/427	DACY OD HADACY OAS MODILLES OD SHDASSEMDLIES	93
N43/	DEDATE COAVIAL OF CRIMPER CONNECTIONS	92
F137	MAVE ENTRIES ON AFTO FORMS 340	91
NAAR	DEMOVE OD DEDI ACE DESICCANTS DIDING FIELD SHOP MAINTENANCE	90
N440	PERFORM IN-SHOP CORROSION CONTROL PROCEDURES ON IRIL	89
NAAQ	REMOVE OR REPLACE DUST ELLTERS	89
N427	REMOVE OR REPLACE DESICCANTS DURING FIELD SHOP MAINTENANCE PERFORM IN-SHOP CORROSION CONTROL PROCEDURES ON LRU REMOVE OR REPLACE DUST FILTERS CLEAN DAS SUPPORT EQUIPMENT REPAIR CABLES, OTHER THAN NUCLEAR HARDENED CABLES	89
H242	REPAIR CARLES. OTHER THAN NUCLEAR HARDENED CABLES	87
N438	PERFORM CONTINUITY CHECKS OF INDIVIDUAL CIRCUITS OR CIRCUIT	
	COMPONENTS	87
H240	INSPECT OR SERVICE DESICCANTS	87
H238	CLEAN EVS MIRRORS	86
N447	REMOVE OR REPLACE CONNECTOR PLUGS	85
N432	LACE OR REMOVE LACING FROM INTERNAL LRU WIRING ASSEMBLIES	85
H236	REMOVE OR REPLACE CONNECTOR PLUGS LACE OR REMOVE LACING FROM INTERNAL LRU WIRING ASSEMBLIES CLEAN CATHODE RAY TUBES (CRT) REMOVE OR REPLACE CIRCUIT COMPONENTS	84
N446	REMOVE OR REPLACE CIRCUIT COMPONENTS	8€
H237	REMOVE OR REPLACE CIRCUIT COMPONENTS CLEAN ELECTRO-OPTICAL VIEWING SYSTEMS (EVS) LENS REMOVE OR REPLACE ESD REMOVE OR REPLACE AVIONICS CONTROL UNIT (ACU) SRU REMOVE OR REPLACE OAS MULTIFUNCTION DISPLAY (MFD) SRU INSPECT INCOMING EQUIPMENT REMOVE OR REPLACE FLIR SCANNER SHOP REPLACEABLE UNITS (SRU)	84
N450	REMOVE OR REPLACE ESD	83
R560	REMOVE OR REPLACE AVIONICS CONTROL UNIT (ACU) SRU	83
R572	REMOVE OR REPLACE OAS MULTIFUNCTION DISPLAY (MFD) SRU	83
N430	INSPECT INCOMING EQUIPMENT	82
	REMOVE OR REPLACE FLIR SCANNER SHOP REPLACEABLE UNITS (SRU)	82
R575	REMOVE OR REPLACE SERVO CONTROL UNIT (SCU) SRU	82

GROUP ID NUMBER AND TITLE: STAGE 55, FLIGHTLINE PRODUCTION PERSONNEL GROUP SIZE: 5 PERCENT OF SAMPLE: 1% AVERAGE GRADE: E7 AVERAGE TICF: 191 MONTHS

AVERAGE TAFMS: 196 MONTHS

		PERCENT MEMBERS
TASKS		PERFORMING
A7	DETERMINE WORK PRIORITIES	100
B32	DIRECT FLIGHTLINE MAINTENANCE ACTIVITIES	100
C74	WRITE APR	100
C75	WRITE RECOMMENDATIONS FOR AWARDS AND DECORATIONS	100
C70	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS	80
	DRIVE FLIGHTLINE MAINTENANCE VEHICLES	60
A23		60
E117	COORDINATE WORK REQUESTS WITH MAINTENANCE CONTROL	60
	TRANSPORT TEST EQUIPMENT OR UNITS TO OR FROM FLIGHTLINE	60
A19	PLAN OR SCHEDULE WORK ASSIGNMENTS	40
	REVIEW AIRCRAFT DEBRIEFING FORMS	40
	CONDUCT PREDISPATCH MAINTENANCE BRIEFINGS	40
	MAKE ENTRIES ON AF FORMS 1492 (DANGER)	40
B29	COUNSEL SUBORDINATES, SUCH AS ON JOB PROGRESSION, MILITARY-	
	RELATED MATTERS, AND PERSONAL MATTERS	40
B25		
	COMMITMENTS	40
G222		40
	BRIEF OR DEBRIEF FLIGHT CREWS	40
B44	INTERPRET DIRECTIVES FOR SUBORDINATES	40
G216		
	UNITS, HEATERS, OR LIGHT CARTS	40
C66		40
	INSPECT AIRCRAFT MAINTENANCE ACTIONS	40
E 140		4.0
	FORMS, SUCH AS AFTO FORMS 781 SERIES	40
E 149		40
B35	DIRECT WORK CENTER MAINTENANCE ACTIVITIES	20
	LAUNCH OR RECOVER AIRCRAFT	20
1248	ADVISE AIRCREWS ON IN-FLIGHT MAINTENANCE AND REPAIR	
	PROCEDURES	20
	ESTABLISH PRODUCTION CONTROLS	20
	SCHEDULE LEAVES	20
C63	EVALUATE WORK SCHEDULES	20